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Forest-land Owners of New Hampshire, 1983

Thomas W. Birch

Abstract

Information about the attitudes and objectives of forest-land owners is essential to understanding New Hampshire's forest resources. Eighty-six percent of New Hampshire's 4.8 million acres of timberland is in 88,100 private ownerships. Eighty-six percent of these ownerships are individual and joint ownerships. A majority, 69 percent of the owners, live within a mile of their nearest tract, and 69 percent own only one tract. Benefits other than timber production are most important to a majority of New Hampshire's landowners, but 21 percent of the private timberland is in ownerships that have timber production as the primary reason for owning forest land. Fifty-six percent of the private owners have harvested trees from their land; these owners control 82 percent of the private forest land.

The Author

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Highlights

- Eighty-six percent of New Hampshire's 4.8 million acres of timberland is in 88,100 private ownerships.

- Eighty-six percent of these ownerships are individual and joint ownerships.

- A majority, 69 percent of the owners, live within a mile of their nearest tract, and 69 percent own only one tract.

- Benefits other than timber production are most important to a majority of New Hampshire's landowners, but 21 percent of the private timberland is in ownerships that have timber production as the primary reason for owning forest land.

- Fifty-six percent of the private owners have harvested trees from their land; these owners control 82 percent of the private forest land.

- Forest industries own 657,800 acres of timberlands, 16 percent of the private timberland.

Introduction

Our forest resources are vital to the social and economic well-being of our society. Good decisionmaking about these resources requires a thorough knowledge of the resource base and the factors affecting it. This publication gives estimates of the number and characteristics of private forest-land ownerships in New Hampshire. It describes attitudes of typical forest-land owners, their reasons for owning forest land, and their views about timber harvesting, forest management, and recreational uses of their land. For a clearer understanding of timber availability, data describing the physical resource (Frieswyk and Malley 1985) need to be related to the objectives and attitudes of forest-land owners. One of the first statewide ownership studies was conducted by the Northeastern Forest Experiment Station in New Hampshire in 1973 (Kingsley and Birch 1977). This new study was conducted to see if the energy crisis of 1974 and beyond altered owner attitudes and to determine the current ownership situation. Results of this study will provide valuable information to a number of user groups. Ownership information will be useful to public agencies in planning and evaluating forestry programs, to forest industry in procuring timber, and to others interested in learning about New Hampshire's diverse forest-land owners and in following trends in land tenure.

Landowners have legal rights and responsibilities relating to forest land. Rights include those to purchase or sell land, determine land use, and to decide the type and level of investment. Along with these rights has evolved a tradition of stewardship to the land. This tradition fixes responsibility for decisionmaking, establishes a claim on income accruing to land, and determines how wealth in land is distributed (Lewis 1980, Wunderlich 1978).

Who or what is an ownership unit?[1] Owners may be persons, combinations of persons, or legal entities such as corporations, partnerships, clubs, and trusts. An ownership unit has control of a parcel or group of parcels of land. Our sampling frame is drawn from the land itself (parcel by parcel), and the owner of record (the apparent owner) is determined. A questionnaire is mailed, and finally an individual responds who has control of an amount of land (not exclusively the parcel sampled).

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[1] This term and others are defined in the Appendix.

The results presented here have been statistically expanded from a sample to estimate the total population of private ownership units and the acreage they own. Users are advised to read the definitions of terms, the discussion of the sampling design, and explanation of sampling errors in the Appendix where tables support conclusions in the text. More than 350 respondents completed the study questionnaire. The positive attitude and helpful comments of the respondents added to the quality of the results.

Two Geographic Units

To present meaningful data on other than state totals, the state was divided into two geographic sampling units (Fig. 1) for the inventory. Each unit was delineated to be as homogeneous as possible in the resource base but not in ownership characteristics. Both units contain nearly 2 million acres of private timberland. The units in New Hampshire had sufficient numbers of responses to ensure confidentiality of individual responses and reliable levels of sampling errors.

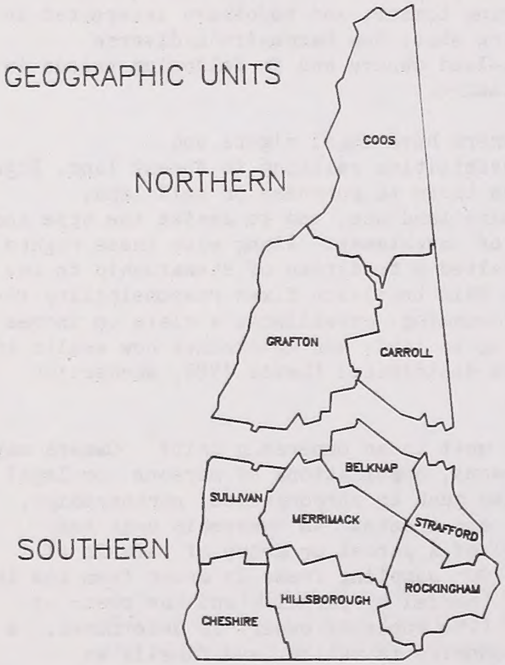

Figure 1--Geographic sampling units and regions for the resource inventory, New Hampshire, 1983.

Northern Unit

The northern unit has 2,490,200 acres of timberland (Table 1), 1,974,700 acres of timberland are owned by 20,700 owners. This unit has the largest concentration of large ownerships. An estimated 100 owners with more than 1,000 acres of forest land each, collectively have 795,000 acres of timberland, 40 percent of the private timberland (Table 2). Most of the forest industry lands in New Hampshire are in this unit (Table 3). This is the most heavily forested part of the state--92 percent forested. Nearly 58 percent of the unit's timberland is in sawtimber stands. Two forest type groups predominate, 48 percent of the timberland is northern hardwoods and 26 percent is spruce/fir types. The unit also includes the White Mountain National Forest with 471,700 acres of timberland.

Southern Unit

The southern unit has 2,321,900 acres of timberland, of which 2,169,300 acres are owned by 67,400 private owners. This unit has the largest concentration of ownerships with 50 to 499 acres of timberland. An estimated 11,300 owners have collectively 1,286,100 acres of timberland, 59 percent of the private timberland. This is the most heavily developed part of the state and has 86 percent of the state's population. Nearly 65 percent of the unit's timberland is in sawtimber stands. Two forest type groups predominate, 44 percent of the timberland is white/red pine and 34 percent is northern hardwoods types. The unit has 152,600 acres of public timberland.

Ownership Classifications

Public Ownership

Publicly owned timberland in New Hampshire totals 668,100 acres (Table 1). In addition, there are 102,500 acres of publicly owned productive reserved and 158,200 acres of unproductive forest land. National Forest and other federal timberland total 490,100 acres. State owned timberland totals 79,100 acres. County and municipal ownerships have 98,900 acres of timberland.

Private Ownership

Forest industries own 657,800 acres of timberland in New Hampshire. Over 80 percent of the forest industry lands are in the northern unit. The nonindustrial private timberland is divided into farmer-owned and miscellaneous private (which includes individual, corporate, and other). The farmer-owned category has an estimated 373,100 acres of timberland. Within miscellaneous private, individuals have 2,585,300 acres, corporations have 249,200 acres, and others (undivided estates, partnerships, clubs, and trusts) have 278,600 acres of timberland.

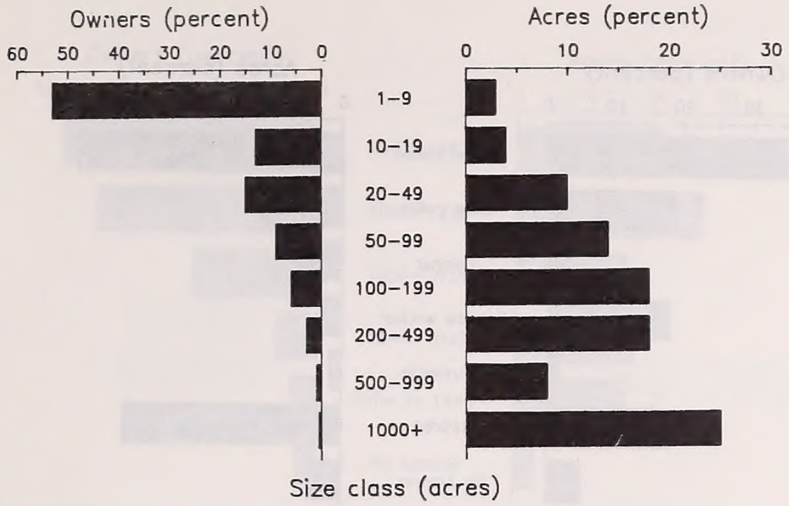

Figure 2--Distribution of private ownership, by size class, New Hampshire, 1983.

The Forest-land Ownership Units

An estimated 88,100 private ownership units hold 4,144,000 acres of timberland in New Hampshire. Fifty-three percent of these ownerships hold fewer than 10 acres of forest land each and collectively control only 3 percent of the private timberland. At the other end of the distribution, 300 ownership units holding 1,000 or more acres each own 25 percent of the private timberland (Table 2, Fig. 2). The differences in distribution of the number of ownership units by survey region are important. Most of the large ownerships are in the northern unit and small ownerships predominate in the southern unit.

Form of Ownership

Ownership units can also be classified by form of ownership. Eighty-six percent of the private ownership units are individual and joint ownerships (excluding partnerships, undivided estates, corporations, clubs, and trusts) collectively holding 2,976,200 acres of timberland (Table 4). Two percent of the ownership units are in corporations that hold 847,400 acres of timberland. The remaining 12 percent of the ownership units with 320,400 acres of timberland are partnerships, undivided estates, clubs, and associations.

The distribution by size class of ownership for the individual and joint ownerships differs from the corporate and other owners. The individual and joint ownerships have a larger percentage of area in the smaller size classes. For example, 61 percent of the area owned by individuals is in ownerships of 50 to 499 acres of timberland, while 84 percent of the corporate acreage is in ownerships of more than 1,000 acres, and the other owners have 40 percent of their acreage in ownerships of more than 1,000 acres.

Corporate Ownership

Corporations engaged in timber-based industries hold 578,200 acres of timberland in New Hampshire (Table 5). There is an additional 79,600 acres of unincorporated forest industry forest land. Some firms manage their lands primarily for timber production but lack primary processing facilities; they are included here as real estate companies. Real estate firms hold 224,800 acres of timberland.

An estimated 200 corporate farms own 20,000 acres of forest land in New Hampshire (about 5 percent of the farmer-owned timberland). The remaining corporate acreage is held by nonindustrial businesses, industrial firms, recreational developments, incorporated sport and recreation clubs, and other corporations. They control 198,100 acres of timberland.

Characteristics of Individual Forest-land Owners

Demographic characteristics of individual forest-land owners can be related to their diverse abilities to practice forest management, to respond to incentive programs, and to harvest in the future. Many studies have attempted to predict ownership response from owner characteristics such as occupation, age, education, and income. In addition, such variables as residence, date of acquisition, and number of tracts owned have been explored as predictors of harvesting intention (Kingsley 1976, Kingsley and Birch 1977).

There is no significant difference in acreage distribution by occupation groups between the northern and southern units in New Hampshire (Table 6). Thirty-nine percent of the individually owned forest land is held by professionals, executives (including business

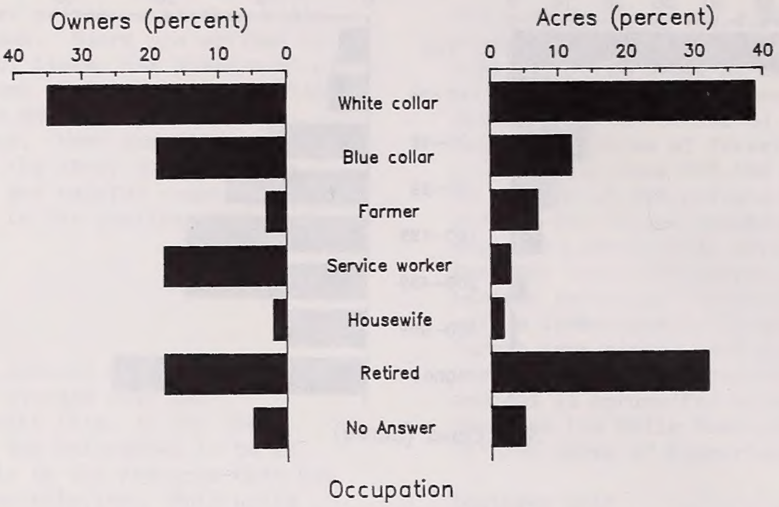

Figure 3--Distribution of individual ownerships, by owner occupation, New Hampshire, 1983.

owners), and white collar workers (Fig. 3). These owners own forest land primarily for reasons other than timber production, though they are not generally opposed to timber harvest. It is felt that this group of owners has a high potential to practice forest management on their lands if properly motivated (Marler and Graves 1974, Birch and Pywell 1986).

Retired owners account for 18 percent of the individual owners, they control 32 percent of the individually owned forest land. Retirees who are not interested in wildlife or general forestry topics may be motivated by programs on taxation, estate planning, and marketing forest products. Information on selecting and working with consulting foresters could also interest this group.

An estimated 1,900 individual owners, whose primary occupation is farming, own 222,100 acres of forest land in New Hampshire. In addition, there are the 200 corporate farms with 20,000 acres of forest land. Therefore, 35 percent of the farmer-owned land is owned by part-time or retired farmers. Full-time farmers including corporate farms have an average of 115 acres of forest land per owner, while part-time farmers or retired owners have an average of 146 acres of forest land per owner. The 1982 Census of Agriculture estimated that there were 2,158 farms with woodland in New Hampshire with 265,884 acres of woodland (U.S. Bureau of Census 1984). There is no significant difference between their estimate of farm woodland and our estimate of timberland owned by full-time and corporate farms.

An estimated 15,000 craftsmen and other blue collar workers represent 19 percent of the individual owners, and collectively hold 12 percent of the individually owned timberland. Service workers are 18 percent of the individual owners and housewives are 2 percent of the individual owners, together they have 5 percent of the individually owned timberland. Owners that did not answer the occupation question make up the remaining 5 percent of the individual owners; they hold 5 percent of the individually owned timberland.

When we look at intention to harvest by individual owners, 50 percent with 70 percent of the timberland owned by individuals intend to harvest trees from their land in the next 10 years (Table 7). Owners who intend to harvest trees in the future but have indefinite plans represent an additional 27 percent with 18 percent of the forest land owned by individuals.

Other demographic information (gathered by this study) provides us with a general description of New Hampshire's individual forest-land owners (Tables 8 to 11). Fifty-five percent of the owners are over 45 years old, and 22 percent are over 65. Over 70 percent of the owners are educated beyond high school, while only 9 percent have 8 years or less of formal education. The median income of those responding to our survey was between $25,000 and $30,000 per year. Half of the owners reported spending their first 12 years in a city with population greater than 10,000.

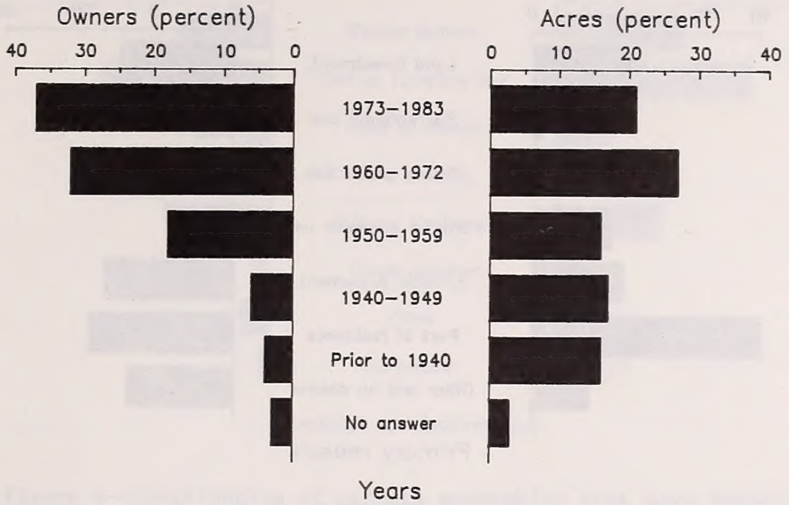

Figure 4--Distribution of individual ownerships, by year owner first acquired woodland, New Hampshire, 1983.

Indicators of Management Potential

Because trees take a long time to grow, tenure of ownership is an important indicator of forest management potential. There has been some concern about ownership tenure in New Hampshire where over half the owners acquired their forest land in the decade prior to 1973 (Kingsley and Birch 1977). In the 11 years since 1973, 37 percent of the current owners in New Hampshire acquired forest land for the first time (Fig. 4). These owners have 21 percent of the forest land in the state. Most forest industries first acquired a portion of their forest land before 1950 (Table 12). There has been considerable reorganization and divestiture of forest holdings by forest industry since the previous survey, which may explain the 131,400 acres owned by new forest industry owners. The miscellaneous individual owner group had 43 percent of the owners first acquire forest land since 1973, and they hold 554,900 acres of timberland, 13 percent of the private timberland in New Hampshire.

Five percent of the forest land owned by individuals was acquired since 1980, 25 percent in the 1970's, 24 percent in the 60's, 19 percent in the 50's, 24 percent before 1950, and 3 percent at dates unknown (Table 13). For all other owners, 17 percent was first acquired since 1980, 14 percent in the 70's, 4 percent in the 60's, 6 percent in the 50's, 55 percent before 1950, and 4 percent at dates unknown.

Where an owner resides in relation to a forest property and how many scattered tracts an owner has may be important to people who deliver various types of forestry assistance. Travel costs are high and budgets are restricted. An estimated 69 percent of the owners live on the tract or have business headquarters within 1 mile of their nearest tract. These ownership units have 54 percent of the timberland (Table 14). Ninety percent of the ownership units own one or two tracts; they have 61 percent of the timberland in New Hampshire (Table 15). Many of the corporate ownerships are included in the 500 ownership units that have six or more tracts and 24 percent of the forest land.

An indication of dispersion is obtained by combining data on number of tracts with distance from nearest and farthest tract (Table 16). For example, of the 27,600 ownership units with more than 1 tract, 11,000 have owners living more than 50 miles from their nearest tract and 16,900 have owners living more than 50 miles from their farthest tract.

Owner Objectives

Since forest lands produce multiple benefits for owners, it is not surprising that landowners express diverse reasons for owning forest lands. Not all the potential benefits from forests are competitive with each other, some benefits can be produced with no effect on others, and some benefits even increase when another is produced. The owners sampled in this study were asked their primary reasons for owning forest land, which benefits were most important in the last 10 years, and which are expected to be most important in the next 10 years.

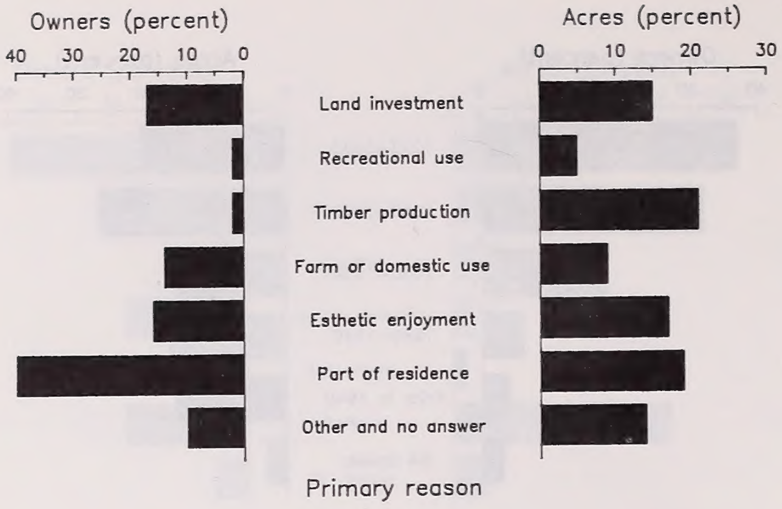

Figure 5--Distribution of private ownerships, by primary reason for owning forest land, New Hampshire, 1983.

About 2 percent of the private ownership units in New Hampshire (including forest industry) gave timber production as their primary reason for owning forest land (Tables 17 to 20, Fig. 5). An additional 13 percent of the owners gave timber production as their second reason. Together these two groups own 1,401,500 acres of forest land, this is 34 percent of New Hampshire's timberland.

Among the benefits received in the last 10 years and expected in the next 10 years, income from the sale of timber was ranked most important by 3 percent of the ownership units (Tables 21 to 23). These owners own about one quarter of the private timberland in New Hampshire. There are more acres owned by people receiving income from the sale of timber than owned primarily for timber production. This may be the result of recent trends in resource use in the state. Since 1973, sawlog production is up 33 percent and pulpwood production increased 68 percent (Frieswyk and Malley 1985). Even with the increased harvesting activity, the woods seem to be doing relatively well. Growing-stock volume increased 16 percent to an average of 1,667 cubic feet per acre. Sawtimber volume increased 26 percent to an average of 3,748 board feet per acre. Owner expectations for income from the sale of timber seem to be rising as inventory is increasing.

An estimated 12,400 ownership units (14 percent) have farm or domestic use as their primary reason for owning forest land. A large portion of the 379,600 acres in these ownerships are thought of as farm woodlots. These lands provide fence posts, firewood, and a portion of the commercial roundwood harvest.

Among the benefits received in the last 10 years and expected in the next 10 years, farm and domestic use and firewood were ranked most important by one-quarter of the ownership units. These owners have more than three-quarters of a million acres of timberland in New Hampshire. There is less expectation that firewood will be most important in the next 10 years than in the last 10 years, this may be the result of declining oil prices which makes firewood a less desirable alternative energy source.

Fifty-five percent of the ownership units gave "residence, part of farm," or "esthetic enjoyment" as their primary reason for owning forest land. These people own 1,512,500 acres or 36 percent of the private timberland. Esthetic enjoyment was the most frequently mentioned benefit that owners derived over the last 10 years. Statewide, 26 percent of the owners, holding 25 percent of the private timberland, felt this was the most important benefit they received. In the next 10 years, 27 percent of the ownership units, with 23 percent of the forest land, expect esthetic enjoyment to be most important.

Two percent of the ownership units owning 5 percent of the forest land gave recreational use as their primary reason for owning forest land. Most forest ownerships in New Hampshire are available for some type of recreational use either by the owner, family and friends, or by the public. Only 2 percent of the owners with 4 percent of the private timberland felt that recreational use was most important in the last 10 years and fewer still feel it will be most important in the next 10 years.

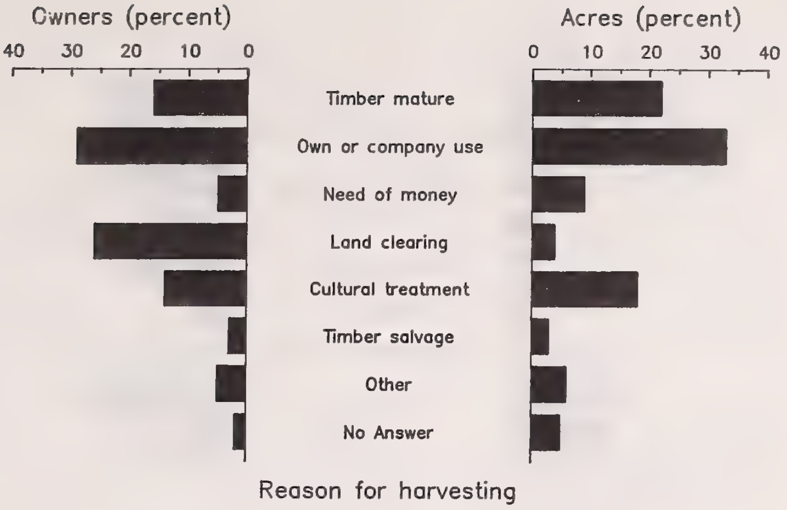

Figure 6--Distribution of private ownerships that have harvested timber, by reason for harvesting, New Hampshire, 1983.

Marler and Graves stated: "Speculation is an objective that seems to be shared to some degree by all "forest-land" owners. Rarely does land value decrease." Land investment is often thought of as a hedge against inflation. An estimated 15,000 owners (17 percent) with 615,300 acres of timberland (15 percent) gave land investment as their primary reason for owning forest land. About 22,800 ownerships felt that land value increase was their most important benefit received in the last 10 years and 26,400 ownerships expect it to be most important in the next 10 years. Land value increase had the largest number of owners of any category of future benefits expected.

Who Harvests Timber and Why?

An estimated 49,000 ownership units (56 percent) have harvested trees from their land in the past; they own 3,413,400 acres, 82 percent of the private forest land. The size of ownership does seem to influence what products are harvested and the reason for harvest. This influence will be discussed later in the "Products Harvested" section of this report.

What motivates owners to cut? The reason most often given by nonindustrial private forest-land owners was that the timber was needed for their own use (Tables 24 and 25). Most of these owners own fewer than 50 acres of forest land. Many of these owners are cutting firewood.

An estimated 7,700 owners harvested because they felt their timber was mature. These owners have 746,600 acres of timberland, 22 percent of the timberland owned by harvesters (Fig. 6). Most of these owners own more than 50 acres of forest land. The owners with more than 50 acres of forest land are likely to have harvested sawlogs or pulpwood from their land.

Over 70 percent of the forest industry forest land is harvested for company use or because the timber was mature. Most of the forest industry ownerships are harvesting sawlogs, pulpwood, and firewood from their lands.

Land clearing is often mentioned as a reason for harvesting in New Hampshire; 26 percent of those owners who have cut timber from their land did so in clearing land. However, these owners hold only 4 percent of the land held by harvesters. Often these people are clearing a home site or are farmers enlarging a field or straightening the edges of fields.

Fourteen percent of the harvesters did so for cultural treatments and an additional 3 percent for timber salvage. The primary products of these operations were pulpwood and fuelwood. Much of this material would not have been utilized in the past and many cultural treatments might not have taken place without markets expanded for these products.

Few of the remaining harvesters did so because they needed the money or they were offered a good price. These two reasons are quite similar and often overlap. The offer of a "good price" on the part of the buyer often meets the 'need' for a certain amount of money on the part of the seller. The apparent improved affluence of the forest-land owners has relegated these two reasons for harvesting to secondary status. The remaining harvesters did so to improve the view, for wildlife habitat improvement, to receive special tax treatment, and for other reasons.

Why Many Owners Have Not Harvested

Forty-four percent of the private forest-land ownership units in New Hampshire have never harvested timber. These ownership units have

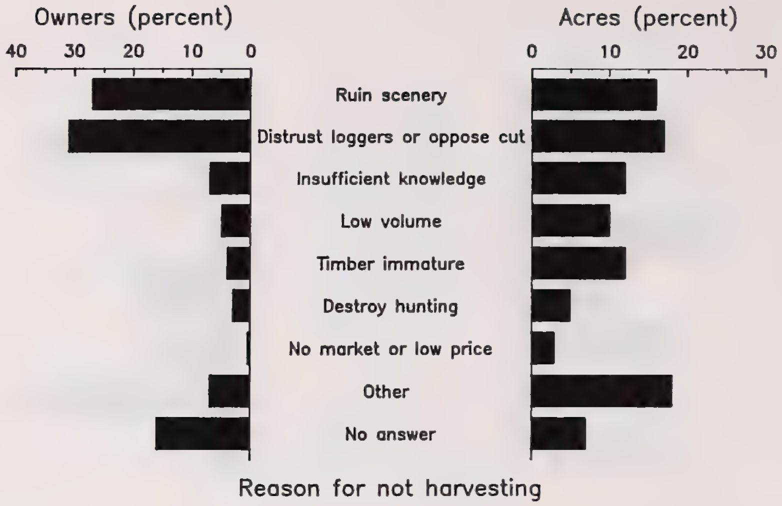

Figure 7--Distribution of private ownerships that have not harvested timber, by reason for not harvesting, New Hampshire, 1983.

730,600 acres, 18 percent of the privately held timberland. Most of the owners who have not harvested in the past indicate that they intend to harvest in the next 10 years.

The reasons most often given for not harvesting timber was that harvesting would ruin the scenery or that they opposed harvesting (Tables 27 and 28, Fig. 7). Sixteen percent of the forest land held by nonharvesters (113,200 acres) was not harvested because the harvest would ruin the scenery. Thirteen percent of the forest land held by nonharvesters is held by those owners who are opposed to harvest.

Timber immature, low volume, no market, or price too low were reasons given by 3,500 owners with 25 percent of the acreage held by nonharvesters. Many of these owners intend to harvest in the future, perhaps when the timber matures, volumes increase, market conditions improve, or when the price goes up. Distrust of loggers and insufficient knowledge were reasons of an estimated 3,900 owners with 16 percent of the forest land held by nonharvesters.

Three percent of the nonharvesters believe harvesting would destroy hunting values; they have 5 percent of the acreage. The belief that timber harvesting destroys the value of the land for hunting is not true. Timber harvesting can add habitat diversity to the forest, which is beneficial to many species of wildlife (Shaw 1970). Opportunities to enhance wildlife habitat in New Hampshire are becoming attractive because the forest is becoming silviculturally mature and management options are commercially viable (Brooks and Birch 1986). Sixty percent of the private timberland in New Hampshire is classified as sawtimber. Another 33 percent is classified as poletimber. Another indicator of wildlife management opportunities more telling than stand size is that 89 percent of the state's timberland is classified as fully stocked or over stocked. The present condition is suppressing the development of an understory, and retarding crown growth and mast production.

Predicting Timber Harvesting Behavior

What an owner will do with his or her forest is influenced by many factors; landowner motives, objectives, and constraints all influence timber harvesting activity (Kurtz and Lewis 1981). In addition, people plan their actions for different time periods. We asked owners not only if they have cut and if they intend to cut trees but also when they intend to cut. These attitudes can change over time.

The previous ownership study in New Hampshire (Kingsley and Birch 1977) estimated that only 7 percent of the owners intended to harvest in the next 10 years, and these owners controlled 53 percent of the private forest land in the state (Fig. 8). An additional 25 percent of the owners intended to harvest sometime in the future but were indefinite as to when the harvest would take place; they controlled 30 percent of the private timberland. That left only 14 percent of the forest land owned by people who never intended to harvest trees from their land and 3 percent owned by those who did not answer the question.

Currently 54 percent of the owners intend to harvest in the next 10 years (Table 28). An additional 26 percent of the owners intend to harvest sometime in the future. These two groups of owners have 90 percent of the private timberland. The acreage by intention to harvest

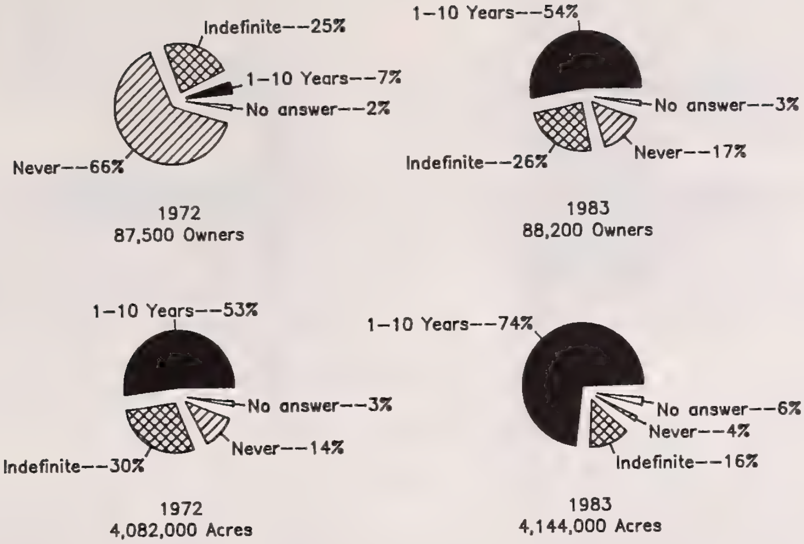

Figure 8--Distribution of private ownerships by expected time of harvest, New Hampshire, 1972-83.

category does not differ significantly between the northern and southern parts of the state (Tables 29 and 30). The northern unit has 77 percent of the timberland owned by people who intend to harvest in the next 10 years and 11 percent owned by those with indefinite plans. The southern unit has 70 percent owned by those who intend to harvest in the next 10 years and 21 percent by indefinite harvesters.

Can we believe that these people will follow through with harvest intentions? Past studies have shown high correlation between timber harvesting and size of ownership. Those owners with more than 500 acres of forest land are most likely to harvest industrial products. Therefore, from an industrial standpoint, there may be some concern about the loss of land in ownerships with more than 500 acres of forest land. Virtually all the owners with more than 500 acres of forest land intend to harvest at some time in the future (Table 31). Increased industrial production in the future will most likely come from owners with 50 to 499 acres. Seventy-one percent of the owners in group intend to harvest in the next 10 years, and an additional 20 percent intend to harvest in the future.

How Much Timber is Available

The answer to: "How much timber is available from private forest land?" is influenced by how one defines availability and the assumptions from which the estimate is developed. Changes in industrial technology, market conditions, and the general social atmosphere limit the credibility of a long-range estimate.

We asked sample owners two questions to aid in estimating timber availability: "Do you plan to cut trees from your land for your personal use or for sale?" and "What percent of your woodland do you feel you would never cut trees from?" We assumed that ownership units as said they would, will harvest in the next 10 years. We further divided the ownership units into four groups: forest industry, nonindustrial private forest ownerships (NIPF's) over 500 acres, NIPF's with 50 to 499 acres, and NIPF's with fewer than 50 acres of forest land.

The estimated 200 forest industry ownerships hold 657,800 acres of timberland in New Hampshire. These owners indicate that 85 percent or 562,200 acres are available for timber harvesting (Table 55). Current average annual growth for New Hampshire's timberland is estimated to be 40.53 cubic feet per acre per year (Frieswyk and Malley 1985). If we assume that this growth is available for harvesting, 22,785,966 cubic feet of wood will be available each year from forest industry lands.

About 600 of the NIPF's holding more than 500 acres of timberland plan to harvest timber in the next 10 years. These ownership units hold 630,400 acres of forest land and indicate that 595,900 acres are available for timber harvesting. Again, if we assume that these owners harvest average annual growth from their forest land, 24,151,827 cubic feet of wood will be available each year.

We estimate that 11,800 NIPF's holding between 50 and 499 acres plan to harvest in the next 10 years. These owners indicate that 1,188,000 acres of the 1,410,100 acres of forest land are available for timber harvesting. If we use the same assumption on growth, 48,149,640 cubic feet of wood will be available each year.

The remaining 35,000 ownership units that intend to harvest in the next 10 years own less than 50 acres of forest land. These ownerships indicate that 318,100 acres are available for timber harvesting. That would give an estimate of 12,892,593 cubic feet of wood available each year.

In total, 107,980,026 cubic feet of growing-stock timber should be made available each year by owners who plan to harvest during the next 10 years. In 1982, 66,776,000 cubic feet of timber were removed from growing stock for products in New Hampshire (Frieswyk and Malley 1985), and 21,758,000 cubic feet of growing stock volume were removed but not utilized for products. An additional 36,393,000 cubic feet were removed from nongrowing-stock sources and utilized for products.

Another approach would be to look at those ownerships who intend to harvest their trees for sale. There are 21,600 owners who intend to cut trees for sale in the next 10 years, they control 1,952,300 acres of timberland (Table 56). If the growth from this land is available, 79,126,719 cubic feet could be cut for industrial use. Industrial production from growing-stock in 1982 was 59,784,000 cubic feet. This suggests a margin of nearly 20 million cubic feet of available timber.

Currently, 13,376,000 cubic feet of industrial production came from nongrowing-stock sources. An additional 23,017,000 cubic feet of fuelwood is coming from nongrowing-stock sources. Many question if the current level of harvesting of nongrowing-stock material can be sustained. Some of this activity could shift to growing-stock sources.

The 22,900 ownership units that intend to harvest in the future holding 675,000 acres feel that 500,900 acres are available. Their growth on growing stock is producing an additional 20,301,477 cubic feet of available timber.

Forest Management on Private Lands

Harvesting Practices

An estimated 7,700 ownerships with 1,610,200 acres of forest land involved a forester in choosing trees for harvest on their forest land (Table 32). A forester alone selected the timber for sale on 4,500 ownerships with 970,900 acres of forest land; most of this acreage is in nonindustrial private ownerships with more than 50 acres of forest land (Table 33). A forester was involved in the selection of trees on 3,500 ownerships where the timber was harvested for the owner's own use (Table 34). Some of these ownerships were the same as those that involved a forester in choosing trees for sale for industrial purposes.

Most of the owners who have harvested trees from their land chose the area or trees to be harvested. An estimated 28,100 ownerships with 510,500 acres of forest land chose the trees for harvest for their own use and did not harvest for industrial use (Table 32). Only 4,000 owners chose the trees for sale for industrial use with no other individual involved in the selection process (Table 33). The majority of these ownerships was nonindustrial private forest-land owners with fewer than 50 acres of forest land (Table 34).

Seven percent of the harvesters allowed the buyer to select the timber to be harvested for sale from their land, and these owners have 468,700 acres of timberland (Table 33). An additional 2,900 owners chose the timber along with the buyer or had the buyer choose the timber along with a forester, these owners control 226,600 acres of forest land in New Hampshire.

Selection, where only preselected marked trees were cut, was used by 6,600 ownerships where the trees were cut for industrial use (Table 35). These ownerships control 828,400 acres of timberland, over half of this acreage is in nonindustrial private ownerships with 50 to 499 acres of forest land (Table 36). When this method of harvest was used for selecting the trees for harvest for the owners own use, 60 percent of the area was in ownerships with 50 to 499 acres of timberland (Table 37).

Diameter-limit cutting, where only trees above a certain minimum diameter are removed, was the method of selection used by 1,400 owners with 213,200 acres of timberland when the trees were chosen for sale (Table 36). This method was used by 5,800 ownerships when the trees were chosen for the owners own use, these ownerships have 184,200 acres of timberland (Table 37). This method was frequently used when the owner was involved in the timber selection. This method is easy for the landowner to administer and allows the landowner to check what was cut without marking individual trees before harvest. Few foresters used this method in New Hampshire; it is considered to be a dysgenic practice and could decrease growth over the length of the rotation.

Clearcutting was used on 4,300 ownerships with 148,900 acres of forest land (Table 35). An estimated 10,600 owners harvested trees in conjunction with land clearing; they own 142,100 acres of forest land. Some owners let the logger select the trees as he or she cut; other landowners used other methods of selection. Many

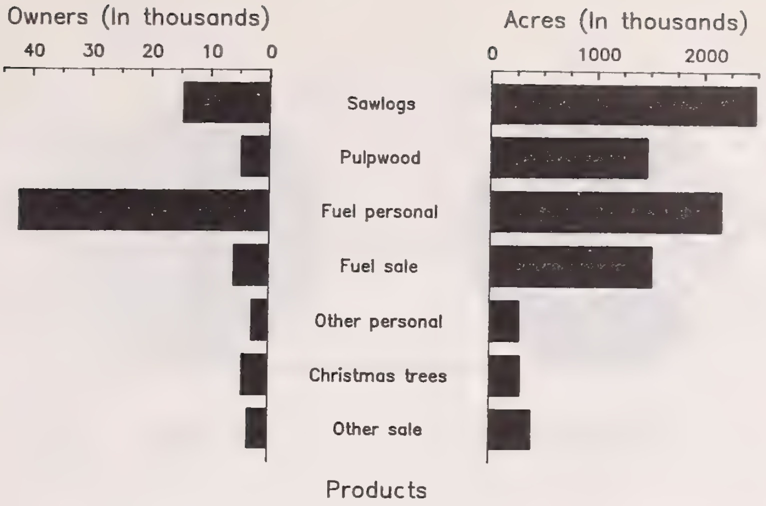

Figure 9--Distribution of private ownerships that have harvested timber, by products harvested, New Hampshire, 1983.

owners used more than one method of selection or a combination of methods depending on whether the timber was to be sold or used for the owners own use. The ownerships that used a combination of methods have 1,301,300 acres of forest land, 38 percent of the forest land owned by harvesters.

A majority of foresters marked the trees to be cut. Out of the 7,700 ownerships on which a forester was involved in selecting the trees for harvest, 5,100 had a forester preselect and mark the trees to be cut for sale (Table 38). An additional 900 ownerships involved foresters in the selection of trees for harvest but used a combination of methods of selection.

When trees were chosen for the owners own use, 34,100 owners chose the trees or area to be harvested themselves (Table 39), these owners control 1,205,600 acres of timberland. Landowners that were involved in land clearing for their own use have small areas of forest land and are probably clearing house lots or improving their view.

Products Harvested

Pulpwood made up 36 percent of the output of timber products in New Hampshire in 1982, nearly 44.4 million cubic feet (Frieswyk and Malley 1985). It is somewhat surprising that only 6 percent of the forest-land owners have harvested pulpwood, these owners control 35 percent of the private timberland in the state (Table 40, Fig. 9). Size of ownership seems to have a direct influence on what products are harvested. In the less-than-50 acre class of nonindustrial private landowners, only 3 percent cut pulpwood; the owners with 50 to 499 acres had 15 percent cut; and the owners with more than 500 acres had 57 percent cut pulpwood. Ninety-two percent of the forest industry lands are owned by firms that cut some pulpwood from their lands.

Sawlogs are second in terms of volume harvested annually in New Hampshire, over 38.4 million cubic feet. More acreage is owned by sawlog harvesters than by harvesters of any other product, 2,476,500 acres of timberland. Virtually all forest-industry ownerships harvested some sawlogs from their lands. Among the nonindustrial private owners, those with more than 500 acres of forest land were most likely to have harvested sawlogs, followed by the 50-to-500 acre ownerships, and lastly the owners with less than 50 acres of forest land.

Fuelwood was third in terms of volume harvested annually, but most of the 30 million cubic feet came from nongrowing-stock sources. Volume from rough and rotten trees was estimated to be 11.7 million cubic feet and 4.8 million cubic feet came from salvable dead trees. Fuelwood for personal use was harvested by an estimated 42,300 owners, 86 percent of the owners who have harvested trees from their land. These owners have 52 percent of the timberland in the state. Nonindustrial owners with 50 to 499 acres of forest land were most likely to harvest fuelwood for their own use. Among the owners with fewer than 50 acres of forest land, fuelwood for personal use was likely to be the only product harvested. Many owners who harvested firewood

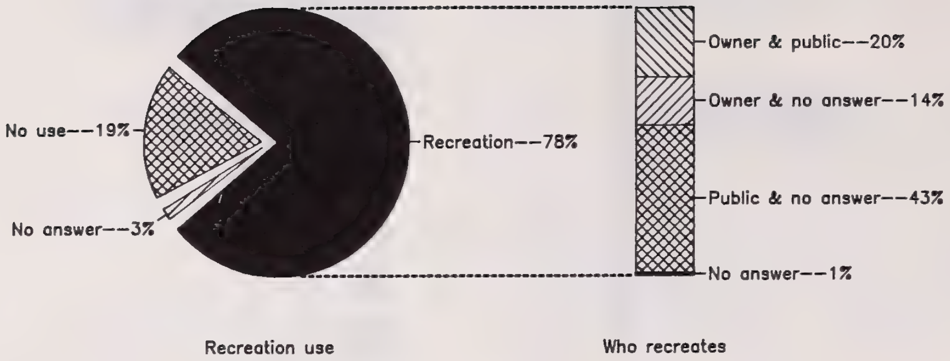

Figure 10--Distribution of acreage in private ownership, by availability for recreation, New Hampshire, 1983.

for personal use cut it in conjunction with the harvest of another product such as pulpwood, sawlogs, fuelwood for sale, or some other industrial product. Forty-two percent of the owners who harvested, cut more than one product from their land. These owners have 75 percent of the acreage owned by harvesters.

Forestry Assistance

In New Hampshire, the county forestry program is administered jointly by the University of New Hampshire, Cooperative Extension Service, and the New Hampshire Department of Resources and Economic Development. The county forester is the front line of public forestry assistance. When asked whom they would contact for forestry assistance, 41 percent of the private forest-land owners said they would contact their county or extension forester (Table 41); they own 43 percent of the timberland in the state. An additional 14 percent of the owners said they would contact a state forester, but they only own 2 percent of the timberland. Only 31 percent of the ownership units said they did not know who to contact and another 10 percent did not respond to the question. Together these two groups hold 34 percent of the privately owned forest land. Most of these owners own fewer than 20 acres of forest land and have not sought forestry assistance in the past.

Thirty-three percent of the forest-land owners have sought some form of forestry assistance, these owners control 65 percent of the private timberland in the state (Table 41). Owners who have harvested timber were twice as likely to have sought assistance than those who have not.

Seventy-eight percent of the owners who sought forestry assistance in the past would contact their county forester, these owners have 1,405,000 acres of timberland (Table 43). Three percent of the owners who sought assistance in the past would contact a consultant or industrial forester, they control 578,700 acres of forest land.

Of the owners who have sought assistance, 17,000 owners with 1,830,500 acres received general forest management assistance (Table 44). Owners received information about forestry, wildlife, taxes, or forest recreation. Owners also received help with planting trees, planning timber sales, and insects or diseases. It is important to note that these data include services received from all forestry sources including forest industries that employ their own foresters.

Recreation

Sixty-two percent of the forest-land ownerships, holding 78 percent of the private forest land, permit or participate in some form of recreational use of their forest land (Table 45). Within this recreational base, there are three major use categories (Fig. 10): (1) the owner, the owner's family, or immediate circle of friends use the land for recreation and permit the public to recreate; (2) the owner, the owner's family, or immediate circle of friends recreate and exclude the general public; and (3) the owner, the owner's family, or immediate circle of friends do not use the land for recreation but the public is permitted to use a portion of the land for recreation.

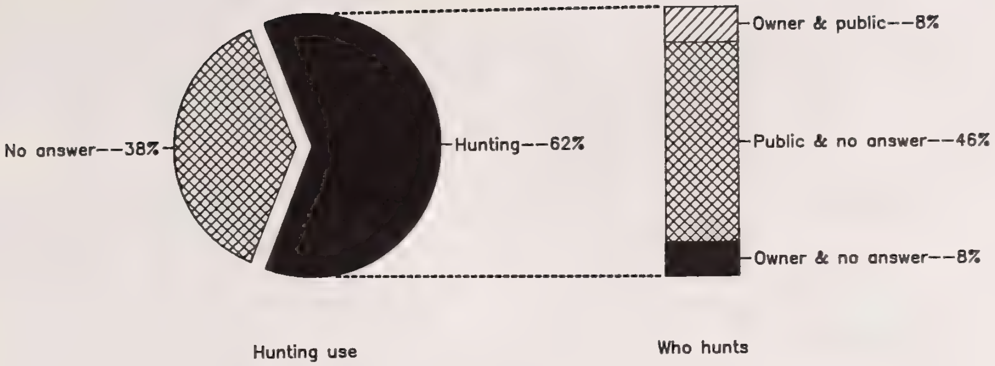

Figure 11--Distribution of acreage in private ownerships, by availability for hunting, New Hampshire, 1983.

Recreational use by the owner and the owner's family or immediate circle of friends occurs on the land of 42,300 ownership units with 1,421,200 acres of timberland (Table 46). Hiking is the most frequently listed form of recreational use on an estimated 33 percent of the ownerships with 24 percent of the private forest land. The recreational activity with the next highest percentage of the forest land acreage where the owner uses the land was bird watching. Eighteen percent of the private forest acreage in the state is in these ownerships. Ten percent of the owners with 16 percent of the private timberland allow hunting. Picnicking, camping, fishing, snowmobiling, and winter sports are all important uses of forest lands in New Hampshire, more than 10 percent of the forest land is owned by people who use a portion of their forest lands for these purposes.

An estimated 33,000 ownership units (37 percent) with 2,610,100 acres (63 percent) allow public use of a portion of their forest land for recreation (Table 47). Hunting is permitted on a portion of 16 percent of the ownerships that control 54 percent of New Hampshire's private timberland. Snowmobiling is permitted by 19 percent of the ownerships holding 44 percent of the private forest land. Hiking is permitted by 18 percent of the landowners holding 46 percent of the forest land. Cross-country skiing and other winter sports are permitted by 9 percent of the owners with 34 percent of the forest land. Fishing is allowed by 18 percent of the owners with 41 percent of the forest land. Bird watching is permitted by 16 percent of the owners with 37 percent of the forest land. Camping and picnicking were permitted by fewer than 5 percent of the owners with less than 30 percent of the forest land.

The amount of forest land available for public use differs between the northern and southern parts of the state (Table 48). The more heavily forested northern unit of the state farthest from the population centers has a higher percentage of forest land available for recreation (74 percent). Large ownerships, those with more than 500 acres of forest land, often open a portion of their land to public recreation (Table 50). Ninety-one percent of the acreage in ownerships with more than 500 acres of forest land is controlled by owners that have a portion of their land available for public recreation.

The amount of forest land used by the owner, the owner's family or immediate circle of friends does not differ significantly from the state average between the northern and southern units of the state (Table 49). The types of recreational use do differ from region to region. The southern unit has more use by hikers and bird watchers while the northern unit has more hunting.

Hiking had the largest acreage available for recreational use by the public and in current use by the owner (64 percent of the private forest area). Hunting was a close second with 62 percent of the area owned by those who have hunting on a portion of their acreage (Table 51, Fig. 11). Hunting is an important wildlife management tool. On only 23 percent of the ownership units, the owner uses the land for hunting or allows the public to use the land for hunting.

Only 24 percent of the private forest land in New Hampshire is in ownerships that post a portion of their land (Table 52). There is no significant difference between acreage posted in

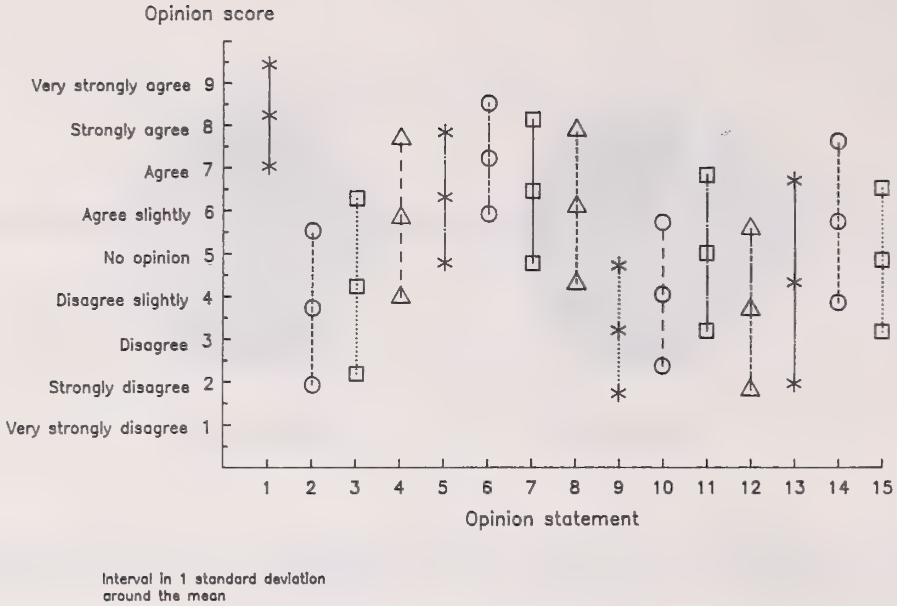

Figure 12--Responses to opinion questions, New Hampshire, 1983.

ownerships that permit some public recreation and ownerships that do not have public recreation use. Just because the land is posted does not mean it is unavailable. The most common reason for posting a portion of the forest land is safety, 12 percent of the owners with 3 percent of the forest land post for safety reasons.

The percentage of forest area in ownerships that post their land is higher in the northern unit of the state (Table 53). The group of owners who seem to post most often are the owners with fewer than 50 acres of forest land (Table 54). Owners with more than 500 acres have a higher proportion of acreage with some posting.

Opinion Questions

Statement:

1. Protection of forests from fire, insects, and diseases is important.
2. Management of forest land for wildlife and recreation reduces the value of the land for timber production.
3. Lower taxes on forested land would not influence me to keep my land forested.
4. Foresters should be licensed just like doctors and lawyers.
5. Help from a forester would make it easier for me to manage my forest land.
6. Recreation is an important forest use.
7. Owners who manage their forest land should pay lower property taxes.
8. More facilities that can use low-grade or poor-quality wood for energy are needed.
9. The state service forester program (County Foresters) is a waste of the taxpayer's money.
10. It doesn't make any difference whether I pay an annual tax on standing timber or a single tax when the timber is harvested.
11. Cutting firewood at current levels will be disasterous for the forests.
12. All forester's care about is timber. They can't or don't want to help with wildlife, water, or recreation problems.
13. I would allow the public to use my land for recreation, including hunting, if my taxes were reduced for doing so.
14. The state should support the use of wood for energy.
15. I would lend financial support to form an association with my neighbors in order to hire a forester to manage our land.

Responses to the first statement indicate that most landowners strongly agree that forest protection is important. This statement had the highest average score of all 15 statements (Fig. 12).

The responses to statement 4 show that there seems to be general agreement in New Hampshire that foresters should be licensed. Many foresters also feel that licensing would enhance their professional image. Responses to statement 5 further reveal that most owners recognize that foresters can help manage their forest lands.

Statement 12 had the highest number of owners who disagreed with any of the 15 statements. Information that foresters are available to help with wildlife, water, and recreation problems is reaching a large number of forest-land owners.

A large number of landowners disagreed and very strongly disagreed with statement 13. However, many landowners with large acreage are willing to allow the public to use their land for recreation if their taxes are reduced for doing so.

There is only slight agreement with statement 14. It would appear that only a slim majority of forest-land owners in New Hampshire feel that the state should support the use of wood for energy.

Based on the response to statement 15, there appears to be little support for forming forestry cooperatives. Few owners feel inclined to lend financial support to hiring a forester. This may be the result of having an active county forestry program available in New Hampshire.

Landowner Communications

We asked owners to list the conservation-oriented publications they receive (Table 58). Answers to this question will help identify publications for educational programs for forest-land owners. Many programs to aid landowners are not well accepted simply because owners are unaware of a programs existence.

An estimated 62 percent of the forest-land owners holding 76 percent of the private forest land in New Hampshire subscribe to a farm, conservation, or regional publication. Highest in circulation among New Hampshire forest-land owners was "Yankee" magazine, which was received by 39 percent of the owners. "Country Journal" was received by 22 percent of the owners. Publications that reached fewer than 20 percent of the owners but were received by people who control over 20 percent of the private timberland in the state were: "Tree Farm News", "The Northern Logger," and "Forest Notes."

Conclusion

The nonindustrial private forest-land owners of New Hampshire usually hold forest land for reasons other than timber production. Many, however, have recognized that their forest land is a source of income, fuel, and many other benefits. By encouraging management for multiple uses, we may not only increase their nontimber outputs, but timber outputs as well. Increased awareness of the benefits of forest management for wildlife, recreation, and investment, as well as timber will motivate increased management. The current level of timber available is adequate for the short run under current levels of management. More timber is being produced on land controlled by owners who have expressed an interest in timber harvesting than is being utilized for conventional roundwood products.

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Appendix

Study Method

The sampling scheme used in this study was derived from the sampling design used in the forest inventory by the Northeastern Station. Forest Inventory, Analysis, and Economics field crews attempt to obtain the current name and mailing address of the owner of each of 743 privately owned forested field plots in the state. These plots are uniformly distributed within each survey unit. The field crews obtained usable addresses for more than 90 percent of the field plots. A total of 611 questionnaires were sent to owners of timberland in New Hampshire; 367 (60 percent) were returned with usable information.

The questionnaire was developed from several earlier ownership studies and was revised as the study progressed through the Northeastern States. Several questions were added to this study to trace change in ownership from the previous ownership study in New Hampshire in 1973. The questionnaires were mailed with a cover letter that explained the purpose of the study. Approximately 2 weeks after the first mailing, a post card was sent to each addressee to remind those who had not responded to return the questionnaire, and to thank those who had responded.

Two weeks later, nonrespondents were mailed a second copy of the questionnaire and the cover letter plus a second letter urging their cooperation. Questionnaires for the state were mailed in March 1984. This resulted in 307 usable questionnaires. In August 1984, the New Hampshire Department of Resources and Economic Development; and the Cooperative Extension Service, University of New Hampshire started to contact the in-state nonrespondents and the USDA Forest Service contacted out-of-state nonrespondents. This resulted in an additional 60 usable questionnaires. The 367 questionnaires represent 484 of the privately owned forested field plots or 65 percent.

The probability that a forest-land owner will be sampled depends on the rate of sampling and the acreage of timberland owned. Each of the survey units in New Hampshire had a different rate of sampling. There were also different rates of response between large acreage owners and small acreage owners. Both the survey rate of sampling and the response rate affect the probability that an owner will be included in the final tabulations.

The total acreage of timberland in private ownership was obtained from the forest survey. The area of timberland in large acreage ownerships was then subtracted and the large acreage ownerships form a separate strata. The remaining private timberland area in each unit was divided by the number of small acreage field plots represented by the remaining valid questionnaires to determine the area represented by each plot.

Since the sampling scheme is essentially the one used for the forest survey, there is a low probability of inclusion for owners of small parcels of forest land. To estimate the total number of persons who own timberland in New Hampshire, it was necessary to weight the number of owners obtained in the samples. The procedure can be stated as:

$$N = \frac{T_p}{N_r} \Sigma \frac{1}{A_i}$$

N = estimated number of private owners in the sampling strata.

T_p = the acres of timberland in the sampling strata.

N_r = number of respondents in the sampling strata.

A_i = acres owned by individual respondents.

The Σ N then equals the estimated number of private ownership units in the state or unit. This is an unbiased estimate of the total number of ownership units that own timberland in New Hampshire.

The data were edited, processed, and compiled by computer using FINSYS-2, a generalized computer system (Barnard 1978). The two forest survey units were combined to make state-level estimates and to increase the accuracy and precision of the estimates. The following tabulation shows the pertinent data for each survey unit and the state.

Region or Unit	No. of usable questionnaires	Timberland plots	Private timberland plots	Plots Owned by respondents	Average acreage per plot
Northern	129	405	325	236	8,367
Southern	238	475	418	248	8,747
State total	367	880	743	484	8,562

Data Accuracy and Reliability

It is important to know the variation associated with the estimates contained in this report. Every acre and every owner in the state were not sampled, therefore the data were estimates. When judging the effectiveness of the estimating procedures, we are concerned with two important criteria: first, how accurate is the estimate; and second, how precise or reliable is the estimate. Accuracy is the correspondence between the sample result and the result from a complete count or census using the same definitions and procedures. Reliability is the precision of the statistical estimates. We are chiefly interested in the accuracy of the sample but in most instances we can only measure reliability.

To check the accuracy of the data, we had this report reviewed by outside experts. The response level obtained in the study is an attempt to assure accuracy by minimizing nonresponse bias. Beyond the search for accuracy, the reliability of the estimate is given by the sampling error. Sampling errors were calculated for the estimated number of private forest-land owners and the acreage of timberland in each cell of the tables. Sampling errors appear in the tables for the most important categories. The sampling error for the number of acres of timberland in private ownership was calculated as part of the forest survey.

Sampling errors provide a means of evaluating survey results; the smaller the sampling error the greater the reliability of the estimate. A statistic with a sampling error of 10 percent is more reliable than one with a sampling error of 20 percent. If an item has a sampling error of 10 percent, chances are 2 out of 3 that an interval constructed to represent a range of 90 to 110 percent of the survey value would contain the true proportion value.

Since the ownership survey was conducted using a land-area sample, the estimates of area have smaller sampling errors than the estimates of numbers of owners.

The sampling errors, in percent, are:

Region or Unit	Private timberland	Owners of private timberland	Owners holding 10 or more acres
Northern	1.3	18.2	12.8
Southern	1.3	21.6	8.5
State	0.9	17.1	7.2

Definition of Terms

Average annual net growth of growing stock. The change (resulting from natural causes) in volume of sound wood in sawtimber and poletimber trees during the period between surveys, divided by the length of the period. Components of annual net growth of growing stock include the increment in net volume of trees present at the beginning of the period minus cull increment (the net volume of trees that became rough or rotten during the period).

Board foot. A unit of lumber measurement 1 foot long, 1 foot wide, and 1 inch thick or its equivalent. By Forest Inventory and Analysis convention, softwoods less than 9.0 inches in d.b.h. and hardwoods less than 11.0 inches in d.b.h. do not contain board-foot volume.

Clearcutting. The method of regenerating timber in which the area is cut clear in the literal sense of the word; virtually all the trees, large and small, are removed. The term is often erroneously applied to any type of cutting in which all the merchantable timber is removed.

Diameter limit. The method of harvesting timber in which all trees above a specified diameter are removed.

Farmer-owned lands. Lands owned by farm operators, whether part of the farmstead or not. Excludes land leased by farm operators from nonfarm owners.

Forest industries. Companies or individuals operating wood-using plants.

Forest industry lands. Lands owned by companies or individuals operating primary wood-using plants.

Forest land. Land that is at least 16.7 percent stocked (contains at least 7.5 ft^2 per acre of basal area) by forest trees of any size, or that formerly had such tree cover and is not currently developed for nonforest use. (Forest trees are woody plants that have a well-developed stem and usually are more than 12 feet in height at maturity.) The minimum area for classification of forest land is 1 acre.

Growing-stock trees. Live trees of commercial species that are classified as sawtimber, poletimber, saplings, and seedlings; that is, all live trees of commercial species except rough and rotten trees.

Growing-stock volume. Net volume, in ft3, of growing-stock trees that are 5.0 inches in d.b.h. or larger, from a 1-foot stump to a minimum 4.0-inch top diameter outside bark of the central stem.

Hardwoods. Dicotyledonous trees, usually broad-leaved and deciduous.

Miscellaneous private lands. Privately owned lands other than forest-industry and farmer-owned lands.

Ownership unit. Encompasses all types of legal entities having an ownership interest in land, regardless of the number of people involved. It is the locus of decisionmaking for each parcel, whether an individual (sole proprietor), group of individuals (partnership), or legal person (corporation).

Primary wood manufacturing plant. A plant that converts round timber into wood products such as woodpulp, lumber, veneer, cooperage, and dimension products.

Private timberland. All timberland other than that owned by federal, state, or local governments or their agencies.

Productive-reserved forest land. Forest land sufficiently productive to qualify as timberland, but withdrawn from timber utilization through statute, administrative designation, or exclusive use for Christmas tree production.

Pulpwood. Any log from which woodpulp is to be made; usually measured in bolts of 4, 5, or 8 feet, and somewhat smaller in diameter than sawlogs or veneer logs.

Sawtimber trees. Live trees of commercial species that are (a) at least 9.0 inches in d.b.h. for softwoods or 11.0 inches for hardwoods, and (b) that contain at least one 12-foot or two noncontiguous 8-foot merchantable sawlogs, and that meet regional specifications for freedom from defect.

Sawtimber volume. Net volume in board feet, International 1/4-inch rule, of merchantable sawlogs in live sawtimber trees. Net volume equals gross volume less deductions for rot, sweep, and other defects that affect use for lumber.

Selection system. The method of regenerating timber in which trees of all sizes are harvested. However, in practice, frequently only the oldest or largest trees in a stand are harvested. Trees are taken singly or in small groups, but the entire stand is never cleared completely in a single operation.

Softwoods. Coniferous trees, usually evergreen, with needles or scalelike leaves.

Stand. A growth of trees on forest land.

Timberland. Forest land that is producing or capable of producing crops of industrial wood (more than 20 ft^3/acre/year) and that is not withdrawn from timber utilization. (Industrial wood is all roundwood products except fuelwood.)

Timber removals. The volume of growing-stock or sawtimber trees harvested or killed in logging or in cultural operations such as timber stand improvement, land clearing, or changes in land use.

Timber salvage. Removals of down, damaged, or diseased trees.

Unproductive forest land. Forest land that is incapable of producing 20 cubic feet per acre per year of industrial wood under natural conditions, because of adverse site conditions.

Unproductive reserved forest land. Forest land that is incapable of producing 20 cubic feet per acre per year of industrial wood under natural conditions, because of adverse site conditions, and withdrawn from timber utilization through statute or administrative designation.

Veneer log. Any log from which veneer is to be made, by peeling (rotary cutting) or slicing.

NE FOREST EXPERIMENT STATION
FOREST SERVICE
U.S. DEPT. OF AGRICULTURE

Form Approved
OMB No. 0596-0078
Expires: 6-30-85

State ___________
County ___________
Plot ___________

NEW ENGLAND WOODLAND OWNERSHIP STUDY

THIS SURVEY IS VOLUNTARY AND THERE ARE NO PENALTIES FOR REFUSING TO ANSWER ANY QUESTIONS. BECAUSE IT WOULD INVOLVE A TREMENDOUS COST TO THE TAXPAYERS WE ARE UNABLE TO CONTACT ALL WOODLAND OWNERS. THEREFORE, WE TAKE A SMALL BUT REPRESENTATIVE SAMPLE OF WOODLANDS, ONE OF WHICH HAPPENS TO BE YOURS. SINCE YOU REPRESENT HUNDREDS OF OTHER WOODLAND OWNERS, YOUR COOPERATION IS IMPORTANT TO MAKE THE SURVEY RESULTS COMPREHENSIVE, ACCURATE, AND TIMELY. THANK YOU.

Please complete the following questions. Where actual records are not available please use your best estimate. Please be assured your answers will be strictly confidential, only statistical tabulations will be published. If you do not now own woodland, please answer question 1 and return the questionnaire.

1. In what states or provinces do you own land?

State or province	Total acres	Acres* wooded

* Include idle fields and pastures with young trees.

2. Of your woodland, how much is in each of the following areas?

   a. Caledonia, Essex, Franklin, Lamoille, Orange, Orleans, and Washington counties, Vermont?
   acres ________ or percent ________

   b. Addison, Bennington, Chittenden, Rutland, Windham, and Windsor counties, Vermont?
   acres ________ or percent ________

   c. Coos, Carroll, and Grafton counties, New Hampshire?
   acres ________ or percent ________

   d. Belknap, Cheshire, Hillsborough, Merrimack, Rockingham, Strafford, and Sullivan counties, New Hampshire?
   acres ________ or percent ________

(Continued on next page)

e. Berkshire, Franklin, Hampshire, and Hampden counties, Massachusetts?

acres ________ or percent ________

f. Barnstable, Bristol, Essex, Middlesex, Norfolk, Plymouth, Suffolk, Dukes, Nantucket, and Worcester counties, Massacusetts?

acres ________ or percent ________

g. In Connecticut? acres ________ or percent ________

h. In Rhode Island? acres ________ or percent ________

3. How many individual tracts or parcels of woodland do you now own?

number ________

4. In what year did you first acquire woodland? (Whether or not you still own the first tract you acquired.)

year ________

How much woodland have you acquired in the last 10 years? acres ________

How much woodland have you disposed of (sold or deeded to others) in the last 10 years?

acres ________

5. In which of the following ownership categories does the major portion of your woodland holding fall? (Please check only one.)

Individual (including joint husband wife and family ownerships other than family corporations) 1. ________
Partnership 2. ________
Corporate 3. ________
Club or association 4. ________
Other (Please specify ________________ ________________________________) 5. ________

6. If your ownership is connected with a business or association what is the nature of the organization:

Check one

________ Forest industry (sawmill, pulpmill, etc.)
________ Farm
________ Industrial business (manufacturing, mineral extraction, etc.)
________ Real estate
________ Non-industrial business (retail, sales, service industry, etc.)
________ Sport/recreation club or association
________ Public utility
________ Other (please specify ________________________ ____)

7. What is the approximate road mileage from your primary residence to your nearest and farthest tract of woodland? (For businesses or organizations consider primary residence to mean nearest place of business.)

Miles to the nearest tract ________
(enter zero if you live on the tract)
Miles to farthest tract ________

8. Have you been approached to sell all or part of your woodland in the last five years?

all _______ part _______ no _______

Have you been approached to sell trees in the last five years?

Yes _______ No ________

9. Have trees been harvested from your land, either by you personally or by someone else, during the time you have owned your woodland?

Yes 1. ______ Year of the most recent harvest ________

No. 2. ______

IF TREES HAVE NOT BEEN HARVESTED FROM YOUR
LAND SKIP TO QUESTION 16 ON PAGE 5

10. During the last 10 years, in what years have trees been cut from your land either by yourself or by someone else for your personal use (i.e. fuelwood, fence posts, etc.) or for wood industry use (sawlogs, pulpwood, etc.)? Please complete the following table. Check as many as apply.

Year	Personal use	Industry use	Both
All years			
1984			
1983			
1982			
1981			
1980			
1978-79			
1976-77			
1973-75			
Don't know			

11. Before trees were cut from your land did you have an opportunity to visit a logging operation?

Yes ______ No ______

After the cutting were you satisfied with the condition of the area?

Yes ______ No ______

If you sold trees were you satisfied with the price you received?

Yes ______ No ______

12. During the cutting, what products were harvested? (Check as many as apply.)

Check	
1. _____	Fuelwood for your own use or for the use of friends
2. _____	Fuelwood for sale
3. _____	Sawlogs for sale
4. _____	Pulpwood for sale
5. _____	Other wood products for personal use (fence posts, etc.)
6. _____	Christmas trees for sale
7. _____	Other products (please specify ____________________ ____)
8. _____	Don't know what products were harvested

13. For the most recent harvest, how were the trees chosen to be cut? (Check as many as apply.)

	Cut for own use	Cut for wood using industry
Preselected marked trees were cut	1. ______	1. ______
Trees over a minimum diameter were cut	2. ______	2. ______
All or nearly all of the trees on a specified area were cut	3. ______	3. ______
Trees were cut to clear the land for another use	4. ______	4. ______
The logger selected the trees as he cut	5. ______	5. ______
Other (please specify _____________ ___________________________)	6. ______	6. ______
Don't know what method was used to select the trees	7. ______	7. ______

14. For most recent harvest, who was most responsible for determining which particular trees would be cut? (Check as many as apply.)

	Timber for own use	timber for wood using industry
Landowner	1. ______	1. ______
Forester	2. ______	2. ______
Friend or neighbor	3. ______	3. ______
Logger or timber buyer	4. ______	4. ______

15. Why were trees cut from your land? (please rank as many as apply with number one the most important reason, number two the next most important reason and so on.)

Rank

1. _____ Felt trees were mature
2. _____ Offered a good price
3. _____ Land clearing
4. _____ Needed money
5. _____ Needed wood for own use
6. _____ Trees harvested for company use (forest industry only)
7. _____ Salvage of trees damaged by insects, disease, fire, or weather
8. _____ To improve wildlife habitat.
   If so what species __________________
9. _____ To improve the view or the scenic quality of the area
10. _____ To improve recreation opportunities
11. _____ Forest improvement-thinning, weeding, cull tree removal, etc.
12. _____ To be eligible for preferential forest land tax treatment
13. _____ Other, (please specify __________________
    ____

16. If trees have not been cut from your land, why not? (Please rank with number one the most important reason and number two the next most important reason and so on.)

Rank

1. ______ No market or prices too low
2. ______ Trees are too small
3. ______ Trees are of too low quality
4. ______ Scenery would be reduced
5. ______ Value of the land for recreation or hunting would be reduced
6. ______ Distrust of loggers
7. ______ Opposed to or disinterested in cutting trees
8. ______ Not enough volume to make harvesting worthwhile
9. ______ Not enough area to make harvesting worthwhile
10. ______ Insufficient knowledge of what trees to sell or how to sell
11. ______ Another reason (please specify ______________
    ____)

17. Do you plan to cut trees or harvest non-wood products (maple sap, Christmas trees, etc.) from your land for your personal use or for sale?

	Wood for own use (Check one)	Wood for sale (Check one)	Non-wood products (Check one)
In the next 10 years?	1. _____	4. _____	7. _____
Possibly at some future date?	2. _____	5. _____	8. _____
Never plan to harvest?	3. _____	6. _____	9. _____

18. What percent, if any, of your woodland do you feel you would never cut trees from?

Percent ________

Why would you not cut trees from this land? Please explain ____________

____

____

19. Have you ever sought advice or help from a forester in managing your woodland?

Yes ______ No ______

(If you answered yes above please check the kinds of help you sought)

Check as many as apply

1. ___________ Information about forestry
2. ___________ Help with tree planting
3. ___________ Forest management assistance
4. ___________ Information about wildlife
5. ___________ Help in selling trees or other forest products
6. ___________ Help with insect or disease
7. ___________ Information about tax incentive programs
8. ___________ Information about forest recreation
9. ___________ Other, please specify _____________________
   ____

20. What office, agency, or individual would you contact for forestry help or advice? (If you don't know, please write in "Don't Know".)

____

21. Why do you own woodland? (Please rank with number 1 the most important.)

Rank

1. _____ Land investment (hope to sell all or most of my woodland at a profit)
2. _____ Recreation (hunting, camping, fishing, bird watching, etc.)
3. _____ Timber production (growing timber or other forest products for sale)
4. _____ Farm or domestic use (having the woods as a source of timber for my own use, e.g., firewood, fence posts, etc.)
5. _____ Enjoyment of owning "green space"
6. _____ Part of the farm (woodland is the untillable part of the farm and serves no useful function in the farm operation)
7. _____ Woodland is part of my residence
8. _____ For an estate to pass on to my children
9. _____ Other (please specify ________________________
   ____)

22. Which of the following do you feel were the most important benefits you derived from your woodland during the last 10 years? (Please rank the benefits in order of importance, with number 1 the most important.)

Rank

1._____ Increase in land value (investment)

2._____ Recreation (hunting, camping, bird watching, etc.)

3._____ Timber production

4._____ Farm or domestic use

5._____ Enjoyment of woods, wildlife, and "green space"

6._____ Firewood

7._____ Other (please specify ____)

23. Which of the following do you feel will be the most important benefits you expect to derive from your woodland during the next 10 years? (Please rank the benefits in order of importance, with number 1 the most important.)

Rank

1._____ Increase in land value (investment)

2._____ Recreation (hunting, camping, bird watching, etc.)

3._____ Timber production

4._____ Farm or domestic use

5._____ Enjoyment of woods, wildlife, and "green space"

6._____ Firewood

7._____ Other (please specify____________________________

____________________________)

24. Does your woodland contain or is it adjacent to a : (check all that apply)

1. ______ Lake

2. ______ Pond

3. ______ Stream or river

4. ______ Public road

25. Is your woodland used for recreational purposes?

Yes ______ No ______

If you answered yes above indicate what activities are permitted and by whom. (Check as many as apply.)

Family, friends or employees only	General public	
1.______	______	Hiking
2.______	______	Picnicking
3.______	______	Camping
4.______	______	Hunting
5.______	______	Fishing
6.______	______	Snowmobiling and trail biking
7.______	______	Winter sports
8.______	______	Bird watching
9.______	______	Other (please specify ________________________________)

26. Is your woodland posted?

Yes ______ No ______

If yes, why have you posted?

Check one

1.______ Past abuse of the property (littering, damage to fences etc.)
2.______ To protect the safety of residents and property
3.______ To protect the owner from liability
4.______ To control hunting (I wish to know who is hunting on my land and/or when)
5.______ To prohibit hunting (I do not want any hunting on my land)
6.______ To control access (I wish to know who is on my land)
7.______ To prohibit access (I do not want uninvited persons on my land)
8.______ Other (Please explain ____
____

27. Is your woodland a vacation or retirement home, homesite, or do you have such plans in the future?

Now	In the future	
1. _____	5. _____	Retirement home
2. _____	6. _____	Vacation home
3. _____	7. _____	Seasonal
4. _____	8. _____	Seasonal home converted to year round use

28. Do you or any member of your household subscribe to or receive any of the following periodicals? (Please check those that apply.)

1. ______ National Wildlife
2. ______ Ranger Rick Magazine
3. ______ Sports Afield
4. ______ Audubon Magazine
5. ______ Agway Cooperator
6. ______ American Forests
7. ______ Connecticut Woodlands
8. ______ Yankee
9. ______ Field Notes (Audubon Society of N.H.)
10. ______ Connecticut Magazine
11. ______ In Touch
12. ______ Field and Stream
13. ______ New Hampshire Times
14. ______ Tree Farm News
15. ______ New Hampshire Profiles
16. ______ Country Journal
17. ______ Northern Logger
18. ______ Farm Journal
19. ______ Forest Notes
20. ______ New Hampshire Natural Resources
21. ______ Vermont Life
22. ______ Any other magazines similar to those listed above (Please specify ______________________________
23. ______ No, I don't subscribe to any of the above magazines

29. Please indicate, by circling the appropriate letter, whether you agree or disagree with each of the following statements. If you feel you don't know, please circle the letter E "no opinion".

	Very strongly disagree	Strongly disagree	Disagree	Disagree slightly	No opinion	Agree slightly	Agree	Strongly agree	Very strongly agree	
1.	A	B	C	D	E	F	G	H	I	Protection of forests from fire, insects, and diseases is important.
2.	A	B	C	D	E	F	G	H	I	Management of forest land for wildlife and recreation reduces the value of the land for timber production.
3.	A	B	C	D	E	F	G	H	I	Lower taxes on forested land would not influence me to keep my land forested.
4.	A	B	C	D	E	F	G	H	I	Foresters should be licensed just like doctors and lawyers.
5.	A	B	C	D	E	F	G	H	I	Help from a forester would make it easier for me to manage my forest land.
6.	A	B	C	D	E	F	G	H	I	Recreation is an important forest use.
7.	A	B	C	D	E	F	G	H	I	Owners who manage their forest land should pay lower property taxes.
8.	A	B	C	D	E	F	G	H	I	More facilities that can use low grade or poor quality wood for energy are needed.
9.	A	B	C	D	E	F	G	H	I	The state service forester program (County Foresters) is a waste of the taxpayer's money.
10.	A	B	C	D	E	F	G	H	I	It doesn't make any difference whether I pay an annual tax on standing timber or a single tax when the timber is harvested.
11.	A	B	C	D	E	F	G	H	I	Cutting firewood at current levels will be disastrous for the forests.
12.	A	B	C	D	E	F	G	H	I	All forester's care about is timber. They can't or don't want to help with wildlife, water, or recreation problems.
13.	A	B	C	D	E	F	G	H	I	I would allow the public to use my land for recreation, including hunting, if my taxes were reduced for doing so.
14.	A	B	C	D	E	F	G	H	I	The state should support the use of wood for energy.
15.	A	B	C	D	E	G	G	H	I	I would lend financial support to form a association with my neighbors in order to hire a forester to manage our land.

The following questions are asked to insure proper classification to questions 1 through 29 by categories such as age, sex, and education. Please be as accurate as possible. If you need space to expand on any of your answers, use the space at the end of the questionnaire. Again, answers are strictly confidential and only statistical tabulations are published. No information that could identify you as an individual is ever published.

THESE QUESTIONS DO NOT PERTAIN TO AND SHOULD NOT BE ANSWERED BY CORPORATIONS AND ORGANIZATIONS.

If the woodland is owned by more than one person, the following questions should be answered for the person to whom the questionnaire is addressed. If the questionnaire is addressed to joint owners, as husband and wife, these questions should be answered by the person who makes most of the decisions.

30. During the first 12 years of the owner's life where did he or she live most of the time?

Check one

1. ______ In a city with a population of 100,000 or more
2. ______ In a city with a population of 10,000 to 99,999
3. ______ In a town with a population of fewer than 10,000
4. ______ In a rural area
5. ______ On a farm

31. What is the sex of the owner?

1. Male _____ 2. Female _____ 3. Joint Ownership ______

32. What is the age of the owner? Check one

1. ______ Under 25
2. ______ 25-34
3. ______ 35-44
4. ______ 45-54
5. ______ 55-64
6. ______ 65 and over

33. How many years of formal education has the owner completed?

Check one

1. ______ Grade 1 - 8
2. ______ Some high school (9-11)
3. ______ High school (12)
4. ______ Some schooling beyond high school (12-15)
5. ______ Undergraduate college degree (16)
6. ______ Some graduate college work (16+)

34. What is the primary occupation of the owner?

____

35. What is your best estimate of the total combined income of all members of the owner's household over 14 years of age during the past 12 months? (Please include NET income from businesses, farming, and rentals, money from jobs, pensions, dividends, interest, social security, unemployment, welfare, and workman's compensation.)

Check one

1. ______ Less than $7,500
2. ______ $7,500 to $9,999
3. ______ $10,000 to $11,999
4. ______ $12,000 to $14,999
5. ______ $15,000 to $19,999
6. ______ $20,000 to $24,999
7. ______ $25,000 to $29,999
8. ______ $30,000 to $49,999
9. ______ Over $50,000

36. How many persons over age 14 are members of the owner's household?

No. ____________

37. Which category below most closely describes the racial or ethnic origin of the owner?

Check one

1. ______ White (not of Hispanic origin)
2. ______ Black (not of Hispanic origin)
3. ______ American Indian or Alaskan native
4. ______ Hispanic
5. ______ Asian or Pacific Islander

Thank you for taking the time to fill out our questionnaire. Your cooperation is greatly appreciated. Please feel free to write in any comments you have in the space below.

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Table 1.--Area of timberland, by ownership class and geographic unit, New Hampshire, 1983

(In thousands of acres)

Ownership class	Northern unit	Southern unit	All units
National forest	471.7	-	471.7
Other federal	.5	17.9	18.4
State	27.6	51.5	79.1
County and municipal	15.7	83.2	98.9
Total public	515.5	152.6	668.1
Forest industry	533.8	124.0	657.8
Farmer[a]	133.6	239.5	373.1
Miscellaneous private:			
Individual	1,012.8	1,572.5	2,585.3
Corporate	125.0	124.2	249.2
Other[b]	169.5	109.1	278.6
Total private	1,974.7	2,169.3	4,144.0
All ownerships	2,490.2	2,321.9	4,812.1

[a] Includes "part-time farmers" (persons whose occupation is not farmer but who say their land is part of a farm). These acres were included in miscellaneous private in the previous survey.

[b] Includes individual estates, clubs, partnerships, and trusts.

Table 2.--Estimated number of private ownership units and acres of timberland owned, by size class, and geographic region, New Hampshire, 1983

Size class acres	Northern Region			Southern region			State total		
	Number	Percent	Sampling error	Southern Region	Percent	Sampling error	State total	Percent	Sampling error
				OWNERS					
1-9	4,600	22	72	41,700	62	35	46,300	53	33
10-19	4,900	24	37	6,700	10	30	11,600	13	23
20-49	5,500	27	25	7,300	11	19	12,800	15	15
50-99	2,400	12	25	5,900	9	14	8,300	9	12
100-199	1,700	8	21	4,000	6	12	5,700	6	11
200-499	1,200	6	17	1,400	2	14	2,600	3	11
500-999	300	1	24	200	W	23	500	1	17
1000-4999	100	W	25	200	W	31	300	W	22
5000+	W	W	30	W	W	40	W	W	24
Total	20,700	100	18.2	67,400	100	21.6	88,100	100	17.1
				ACRES OWNED					
1-9	22,200	1	72	124,200	6	26	146,400	3	25
10-19	77,900	4	39	97,600	5	30	175,500	4	24
20-49	166,900	9	28	239,500	11	18	406,400	10	16
50-99	167,000	9	28	399,100	18	14	566,100	14	13
100-199	222,600	11	24	505,600	23	12	728,200	18	11
200-499	345,000	17	20	381,400	18	14	726,400	18	12
500-999	178,100	9	27	159,600	7	23	337,700	8	18
1000-4999	178,100	9	27	177,400	8	22	355,500	8	17
5000+	616,900	31	29	84,900	4	39	701,800	17	26
Total	1,974,700	100	1.3	2,169,300	100	1.3	4,144,000	100	.9

W-Fewer than 50 owners or less than 0.5 percent.

Table 3.--Estimated number of private ownership units and acres of timberland owned, by expected time of future harvest and region, New Hampshire, 1983

Ownership class	1 - 10 years	Indefinite	Never	No answer	Total	Sampling error, percent
		NORTHERN REGION OWNERS				
Forest industry	W	-	-	100	100	51
Farmer	1,000	W	-	-	1,000	45
Individual	8,500	2,200	6,200	1,700	18,600	20
Corporate	100	W	-	W	100	65
Other	200	700	W	-	900	44
Total	9,800	2,900	6,200	1,800	20,700	18.2
		ACRES OWNED				
Forest industry	522,600	-	-	11,200	533,800	34
Farmer	122,500	11,100	-	-	133,600	31
Individual	656,600	155,800	89,100	111,300	1,012,800	14
Corporate	102,800	11,100	-	11,100	125,000	39
Other	113,800	44,600	11,100	-	169,500	29
Total	1,518,300	222,600	100,200	133,600	1,974,700	1.3
		SOUTHERN REGION OWNERS				
Forest industry	100	W	-	W	100	45
Farmer	1,700	300	-	W	2,000	25
Individual	26,600	18,300	9,200	300	54,400	22
Corporate	200	1,300	-	100	1,600	46
Other	9,100	100	-	100	9,300	96
Total	37,700	20,000	9,200	500	67,400	21.6
		ACRES OWNED				
Forest industry	97,400	8,900	-	17,700	124,000	29
Farmer	195,100	35,500	-	8,900	239,500	18
Individual	1,093,600	337,100	79,800	62,000	1,572,500	4
Corporate	62,100	53,200	-	8,900	124,200	26
Other	82,500	17,700	-	8,900	109,100	28
Total	1,530,700	452,400	79,800	106,400	2,169,300	1.3

Continued

Table 3.--Continued

Ownership class	1 - 10 years	Indefinite	Never	No answer	Total	Sampling error, percent
		STATE TOTAL OWNERS				
Forest industry	100	W	-	100	200	36
Farmer	2,700	300	-	W	3,000	23
Individual	35,100	20,500	15,400	2,000	73,000	17
Corporate	300	1,300	-	100	1,700	44
Other	9,300	800	W	100	10,200	87
Total	47,500	22,900	15,400	2,300	88,100	17.1
		ACRES OWNED				
Forest industry	620,000	8,900	-	28,900	657,800	29
Farmer	317,600	46,600	-	8,900	373,100	16
Individual	1,750,200	492,900	168,900	173,300	2,585,300	6
Corporate	164,900	64,300	-	20,000	249,200	23
Other	196,300	62,300	11,100	8,900	278,600	21
Total	3,049,000	675,000	180,000	240,000	4,144,000	.9

W-Fewer than 50 owners or less than 0.5 percent.

Table 4.--Estimated number of private ownership units and acres of timberland owned, by size class, and form of ownership, New Hampshire, 1983

Size class (acres)	Individual		Corporation		Other		Total		Sampling error, percent
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	
				OWNERS					
1-9	37,500	49	-	-	8,800	85	46,300	53	33
10-19	11,100	15	500	26	-	-	11,600	13	23
20-49	11,500	15	700	37	600	6	12,800	15	15
50-99	8,100	11	200	11	-	-	8,300	9	12
100-199	4,800	6	200	11	700	7	5,700	6	11
200-499	2,300	3	100	5	200	2	2,600	3	11
500-999	400	1	100	5	W	W	500	1	17
1000-4999	200	W	100	5	W	W	300	W	22
5000+	W	W	W	W	W	W	W	W	24
Total	75,900	100	1,900	100	10,300	100	88,100	100	17.1
				ACRES OWNED					
1-9	137,600	5	-	-	8,800	3	146,400	3	25
10-19	166,600	5	8,900	1	-	-	175,500	4	24
20-49	366,400	12	17,700	2	22,300	7	406,400	10	16
50-99	548,400	18	17,700	2	-	-	566,100	14	13
100-199	619,300	21	20,000	2	88,900	28	728,200	18	11
200-499	650,900	22	37,800	4	37,700	12	726,400	18	12
500-999	264,400	9	40,000	5	33,300	10	337,700	8	18
1000-4999	200,000	7	106,600	13	48,900	15	355,500	8	17
5000+	22,600	1	598,700	71	80,500	25	701,800	17	26
Total	2,976,200	100	847,400	100	320,400	100	4,144,000	100	.9

W-Fewer than 50 owners or less than 0.5 percent.

Table 5.--Estimated number of business owners and acres of timberland owned, by incorporated and unincorporated businesses, New Hampshire, 1983

Nature of business	Incorporated				Unincorporated			
	Number	Percent	Acres	Percent	Number	Percent	Acres	Percent
Real estate	100	5	51,100	6	1,200	2	173,700	5
Forest industry	100	5	578,200	68	100	W	79,600	3
Other industry	800	42	66,600	8	-	-	-	-
Nonindustrial business	500	27	37,800	5	300	W	42,200	1
Farm	200	11	20,000	2	2,800	3	353,100	11
Sport/recreation club	100	5	31,100	4	100	W	11,100	W
Other	100	5	62,600	7	81,700	95	2,636,900	80
Total	1,900	100	847,400	100	86,200	100	3,296,600	100

W-Fewer than 50 owners or less than 0.5 percent.

Table 6.--Estimated number of individual owners and acres of timberland owned, by occupation, and region, New Hampshire, 1983

Occupation	Northern region		Southern region		Total	
	Number	Percent	Number	Percent	Number	Percent
			OWNERS			
Professional	4,000	21	13,000	23	17,000	22
Manager	1,400	7	2,200	4	3,600	5
Other white collar	1,200	6	4,800	9	6,000	8
Total white collar	6,600	34	20,000	36	26,600	35
Craftsman	3,400	17	4,500	8	7,900	10
Blue collar	400	2	6,700	12	7,100	9
Total blue collar	3,800	19	11,200	20	15,000	19
Farmer	600	3	1,300	2	1,900	3
Service worker	1,200	6	12,300	22	13,500	18
Housewife	500	3	1,300	2	1,800	2
Retired	4,300	22	9,200	16	13,500	18
No Answer	2,500	13	1,100	2	3,600	5
Total	19,500	100	56,400	100	75,900	100
			ACRES OWNED			
Professional	222,600	19	372,500	20	595,100	20
Manager	122,400	10	230,600	13	353,000	12
Other white collar	89,000	8	124,200	7	213,200	7
Total white collar	434,000	37	727,300	40	1,161,300	39
Craftsman	66,800	6	150,800	8	217,600	7
Blue collar	33,400	3	106,400	6	139,800	5
Total blue collar	100,200	9	257,200	14	357,400	12
Farmer	89,000	8	133,100	7	222,100	7
Service worker	22,300	2	53,200	3	75,500	3
Housewife	33,400	3	35,500	2	68,900	2
Retired	389,600	34	552,500	30	942,100	32
No Answer	77,900	7	71,000	4	148,900	5
Total	1,146,400	100	1,829,800	100	2,976,200	100

Table 7.--Estimated number of private ownership units and acres of timberland owned, by expected time of future harvest, and occupation, New Hampshire, 1983

Occupation	1 - 10 years	Indefinite	Never	No answer	Total	Sampling error, percent
			OWNERS			
Professional	14,300	1,100	1,500	100	17,000	30
Manager	2,400	500	600	100	3,600	29
Other white collar	1,300	4,600	100	W	6,000	45
Total white collar	18,000	6,200	2,200	200	26,600	22
Craftsman	3,800	800	3,100	200	7,900	41
Blue collar	2,100	500	4,500	-	7,100	64
Total blue collar	5,900	1,300	7,600	200	15,000	37
Farmer	1,700	200	-	W	1,900	31
Service worker	3,500	9,300	-	700	13,500	69
Housewife	600	W	1,100	100	1,800	66
Retired	7,300	2,700	2,600	900	13,500	20
No Answer	700	1,000	1,900	W	3,600	55
All individuals	37,700	20,700	15,400	2,100	75,900	16
All others	9,800	2,200	W	200	12,200	73
Total	47,500	22,900	15,400	2,300	88,100	17.1
			ACRES OWNED			
Professional	475,100	80,000	31,100	8,900	595,100	13
Manager	237,600	64,300	28,900	22,200	353,000	16
Other white collar	124,300	68,900	8,900	11,100	213,200	22
Total white collar	837,000	213,200	68,900	42,200	1,161,300	9
Craftsman	155,300	17,700	22,300	22,300	217,600	21
Blue collar	104,300	26,600	8,900	-	139,800	26
Total blue collar	259,600	44,300	31,200	22,300	357,400	16
Farmer	175,500	37,700	-	8,900	222,100	21
Service worker	28,900	35,500	-	11,100	75,500	36
Housewife	42,300	8,900	8,800	8,900	68,900	38
Retired	651,100	162,100	48,900	80,000	942,100	10
No Answer	100,000	28,900	11,100	8,900	148,900	26
All individuals	2,094,400	530,600	168,900	182,300	2,976,200	6
All others	954,600	144,400	11,100	57,700	1,167,800	14
Total	3,049,000	675,000	180,000	240,000	4,144,000	.9

W-Fewer than 50 owners or less than 0.5 percent.

Table 8.--Estimated number of individual owners and acres of timberland owned, by age class and region, New Hampshire, 1983

Age class (years)	Individual owners		Sampling error, percent	Acres owned		Sampling error, percent
	Number	Percent		Number	Percent	
			NORTHERN REGION			
Under 25	-	-	-	-	-	-
25-44	3,400	17	38	144,700	12	29
45-64	10,500	54	35	500,800	44	17
65 or over	5,100	26	23	467,500	41	18
No answer	500	3	92	33,400	3	59
Total	19,500	100	19.4	1,146,400	100	13.7
			SOUTHERN REGION			
Under 25	-	-	-	-	-	-
25-44	30,100	53	38	301,600	16	17
45-64	14,100	25	25	833,800	46	9
65 or over	11,800	21	25	650,000	36	10
No answer	400	1	51	44,400	2	44
Total	56,400	100	20.9	1,829,800	100	3.2
			STATE TOTAL			
Under 25	-	-	-	-	-	-
25-44	33,500	44	34	446,300	15	15
45-64	24,600	33	21	1,334,600	45	8
65 or over	16,900	22	19	1,117,500	37	10
No answer	900	1	55	77,800	3	36
Total	75,900	100	16.3	2,976,200	100	5.6

Table 9.--Estimated number of individual owners and acres of timberland owned, by years of formal education and region, New Hampshire, 1983

Education level	Individual owners		Sampling error, percent	Acres owned		Sampling error, percent
	Number	Percent		Number	Percent	
			NORTHERN REGION			
1-8 years	-	-	-	-	-	-
9-11 years	3,600	18	77	111,300	10	33
High school graduate	3,900	20	36	189,200	16	26
Beyond high school	3,700	19	53	155,800	14	28
Bachelors degree	3,300	17	31	211,500	18	25
Graduate work	4,400	23	30	434,100	38	19
No answer	600	3	81	44,500	4	51
Total	19,500	100	19.4	1,146,400	100	13.7
			SOUTHERN REGION			
1-8 years	6,800	12	67	97,600	5	30
9-11 years	1,600	3	63	79,800	4	33
High school graduate	4,900	9	28	266,100	15	17
Beyond high school	12,000	21	33	408,000	22	13
Bachelors degree	17,300	30	54	321,900	18	16
Graduate work	13,400	24	35	612,000	34	10
No answer	400	1	51	44,400	2	44
Total	56,400	100	20.9	1,829,800	100	3.2
			STATE TOTAL			
1-8 years	6,800	9	67	97,600	3	30
9-11 years	5,200	7	57	191,100	7	24
High school graduate	8,800	12	22	455,300	15	15
Beyond high school	15,700	21	28	563,800	19	13
Bachelors degree	20,600	27	46	533,400	18	14
Graduate work	17,800	23	28	1,046,100	35	10
No answer	1,000	1	51	88,900	3	34
Total	75,900	100	16.3	2,976,200	100	5.6

Table 10.--Estimated number of individual owners and acres of timberland owned, by annual income class and region, New Hampshire, 1983

Income class	Individual owners		Sampling error, percent	Acres owned		Sampling error, percent
	Number	Percent		Number	Percent	
NORTHERN REGION						
Under $10,000	4,500	23	64	111,300	10	33
$10,000-$14,999	1,500	8	53	77,900	7	39
$15,000-$19,999	400	2	68	55,700	5	46
$20,000-$24,999	2,300	12	49	89,000	8	37
$25,000-$29,999	1,900	10	40	111,300	10	33
$30,000+	5,300	27	26	478,600	41	17
No answer	3,600	18	56	222,600	19	24
Total	19,500	100	19.4	1,146,400	100	13.7
SOUTHERN REGION						
Under $10,000	1,900	4	36	133,000	7	26
$10,000-$14,999	2,400	4	42	124,200	7	26
$15,000-$19,999	15,900	28	62	159,700	8	23
$20,000-$24,999	2,400	4	28	168,500	9	22
$25,000-$29,999	4,000	7	32	212,900	12	20
$30,000+	21,700	39	28	818,600	45	10
No answer	8,100	14	39	212,900	12	20
Total	56,400	100	20.9	1,829,800	100	3.2
STATE TOTAL						
Under $10,000	6,400	8	46	244,300	8	20
$10,000-$14,999	3,900	5	33	202,100	7	22
$15,000-$19,999	16,300	22	61	215,400	7	21
$20,000-$24,999	4,700	6	28	257,500	9	19
$25,000-$29,999	5,900	8	25	324,200	11	17
$30,000+	27,000	36	23	1,297,200	43	9
No answer	11,700	15	32	435,500	15	16
Total	75,900	100	16.3	2,976,200	100	5.6

Table 11.--Estimated number of individual owners and acres of timberland owned, by early life environment[a] and region, New Hampshire, 1983

Early life environment	Individual owners		Sampling error, percent	Acres owned		Sampling error, percent
	Number	Percent		Number	Percent	
			NORTHERN REGION			
City over 100,000	3,100	16	37	267,100	23	23
City 10,000-99,999	4,000	20	49	267,100	23	23
Town/city under 10,000	3,800	19	34	167,000	15	28
Rural area	3,500	18	33	211,500	18	25
On a farm	4,600	24	62	200,300	18	26
No answer	500	3	92	33,400	3	59
Total	19,500	100	19.4	1,146,400	100	13.7
			SOUTHERN REGION			
City over 100,000	5,900	10	35	304,100	17	16
City 10,000-99,999	25,100	45	41	470,100	26	12
Town/city under 10,000	8,400	15	27	390,300	21	14
Rural area	7,400	13	44	248,400	14	18
On a farm	8,900	16	51	354,800	19	15
No answer	700	1	44	62,100	3	37
Total	56,400	100	20.9	1,829,800	100	3.2
			STATE TOTAL			
City over 100,000	9,000	12	26	571,200	19	14
City 10,000-99,999	29,100	38	36	737,200	25	11
Town/city under 10,000	12,200	16	21	557,300	19	13
Rural area	10,900	14	32	459,900	15	15
On a farm	13,500	18	40	555,100	19	13
No answer	1,200	2	45	95,500	3	32
Total	75,900	100	16.3	2,976,200	100	5.6

[a] First 12 years.

Table 12.--Estimated number of private ownership units and acres of timberland owned, by date of acquisition and form of ownership, New Hampshire, 1983

Date of acquisition	Forest industry	Farmer	Corporate	Misc. individual	Misc. other	Total
			OWNERS			
1980-1984	W	-	W	5,600	300	5,900
1973-1979	W	600	500	25,500	100	26,700
1970-1972	W	100	100	15,900	300	16,400
1960-1969	W	600	100	11,100	200	12,000
1950-1959	W	500	500	6,200	9,000	16,200
1940-1949	100	1,100	W	4,000	100	5,300
1901-1939	100	100	100	2,600	100	3,000
Prior to 1900	W	-	100	100	W	200
No answer	W	-	300	2,000	100	2,400
Total	200	3,000	1,700	73,000	10,200	88,100
			ACRES OWNED			
1980-1984	118,400	-	20,000	153,200	60,000	351,600
1973-1979	13,000	40,000	17,800	401,700	45,900	518,400
1970-1972	20,000	17,800	8,900	279,800	38,900	365,400
1960-1969	8,900	66,600	37,800	635,300	11,100	759,700
1950-1959	17,700	115,500	26,600	444,000	40,000	643,800
1940-1949	238,300	113,200	11,100	333,200	11,100	706,900
1901-1939	55,600	20,000	42,200	244,700	51,600	414,100
Prior to 1900	177,000	-	56,000	8,900	11,100	253,000
No answer	8,900	-	28,800	84,500	8,900	131,100
Total	657,800	373,100	249,200	2,585,300	278,600	4,144,000

W-Fewer than 50 owners or less than 0.5 percent.

Table 13.--Estimated number of private ownership units and acres of timberland owned, by date of acquisition, New Hampshire, 1983

Date of acquisition	Individual owners			Acres owned			All other owners			Acres owned		
	Number	Percent	Sampling error, percent	Number	Percent	Sampling error, percent	Number	Percent	Sampling error, percent	Number	Percent	Sampling error, percent
1980-1984	5,600	7	37	153,200	5	25	300	2	45	198,400	17	53
1973-1979	26,000	34	40	430,600	15	14	700	6	68	87,700	7	37
1970-1972	15,900	21	39	288,700	10	18	500	4	72	76,700	7	39
1960-1969	11,700	15	24	710,800	24	12	300	2	88	48,900	4	45
1950-1959	6,800	9	23	577,200	19	13	9,500	78	94	66,600	6	38
1940-1949	5,100	7	22	446,500	15	15	200	2	57	260,500	22	67
1901-1939	2,800	4	40	275,800	9	19	200	2	50	138,300	12	28
Prior to 1900	W	W	100	8,900	W	100	100	1	81	244,100	21	44
No answer	2,000	3	51	84,500	3	36	400	3	63	46,600	4	45
Total	75,900	100	16.3	2,976,200	100	5.6	12,200	100	72.8	1,167,800	100	14.1

W-Fewer than 50 owners or less than 0.5 percent.

Table 14.--Estimated number of private ownership units and acres of timberland owned, by distance from residence to nearest tract and region, New Hampshire, 1983

Distance from residence (miles)	Private ownership units			Acres owned		
	Number	Percent	Sampling error, percent	Number	Percent	Sampling error, percent
NORTHERN REGION						
0-1	13,500	65	27	889,600	45	15
2-5	1,600	8	39	363,400	18	46
6-15	100	W	59	33,400	2	59
16-25	W	W	71	133,300	7	62
26-50	100	W	92	129,500	7	80
51-100	1,700	8	50	66,800	3	42
Over 100	2,800	14	33	267,100	13	23
No answer	900	5	81	91,600	5	40
Total	20,700	100	18.2	1,974,700	100	1.3
SOUTHERN REGION						
0-1	47,500	70	25	1,351,400	62	5
2-5	2,500	4	50	133,100	6	25
6-15	1,800	3	41	143,800	7	26
16-25	300	W	68	44,300	2	44
26-50	1,300	2	62	88,700	4	31
51-100	600	1	33	115,300	6	27
Over 100	11,400	17	78	221,800	10	19
No answer	2,000	3	60	70,900	3	35
Total	67,400	100	21.6	2,169,300	100	1.3
STATE TOTAL						
0-1	61,000	69	20	2,241,000	54	7
2-5	4,100	5	34	496,500	12	34
6-15	1,900	2	39	177,200	4	24
16-25	300	W	65	177,600	4	48
26-50	1,400	2	59	218,200	5	49
51-100	2,300	3	38	182,100	5	23
Over 100	14,200	16	63	488,900	12	15
No answer	2,900	3	48	162,500	4	27
Total	88,100	100	17.1	4,144,000	100	.9

W-Fewer than 50 owners or less than 0.5 percent.

Table 15.--Estimated number of private ownership units and acres of timberland owned, by number of tracts and region, New Hampshire, 1983

Number of tracts	Private owners		Sampling error, percent	Acres owned		Sampling error, percent
	Number	Percent		Number	Percent	
			NORTHERN REGION			
1	15,600	75	24	656,600	33	16
2	2,800	14	33	289,400	15	22
3	1,800	9	32	178,100	9	27
4	300	2	70	55,700	3	46
5	100	W	53	55,600	3	46
6 - 10	100	W	44	102,000	5	35
11 or more	W	W	30	637,300	32	28
Total	20,700	100	18.2	1,974,700	100	1.3
			SOUTHERN REGION			
1	44,900	67	24	1,155,700	53	6
2	15,200	23	60	399,100	18	14
3	6,200	9	71	221,700	10	19
4	400	1	38	79,800	4	33
5	300	W	60	35,500	2	50
6 - 10	200	W	44	79,900	4	33
11 or more	200	W	30	197,600	9	22
Total	67,400	100	21.6	2,169,300	100	1.3
			STATE TOTAL			
1	60,500	69	19	1,812,300	44	7
2	18,000	21	51	688,500	17	12
3	8,000	9	56	399,800	10	16
4	700	1	37	135,500	3	27
5	400	W	45	91,100	2	34
6 - 10	300	W	35	181,900	4	24
11 or more	200	W	24	834,900	20	22
Total	88,100	100	17.1	4,144,000	100	.9

W-Fewer than 50 owners or less than 0.5 percent.

Table 16.--Estimated number of private ownership units and acres of timberland owned, by distance from tracts, New Hampshire, 1983

Distance (miles)	Owners of 1 tract	Owners of more than 1 tract	
		Distance to:	
		Nearest tract	Farthest tract
	OWNERS		
0-1	46,900	14,100	4,800
2-5	2,800	1,300	2,700
6-15	1,300	600	2,000
16-25	W	300	400
26-50	1,200	200	200
51-100	1,200	1,100	1,300
Over 100	4,300	9,900	15,600
No answer	2,800	100	600
Total	60,500	27,600	27,600
	ACRES OWNED		
0-1	1,057,200	1,183,800	257,600
2-5	91,100	405,400	337,700
6-15	79,800	97,400	400,000
16-25	40,000	137,600	75,500
26-50	35,500	182,700	115,100
51-100	82,100	100,000	640,900
Over 100	320,000	168,900	395,800
No answer	106,600	55,900	109,100
Total	1,812,300	2,331,700	2,331,700

W-Fewer than 50 owners or less than 0.5 percent.

Table 17.--Estimated number of private ownership units and acres of timberland owned, by primary reason for owning, for harvesters and nonharvesters, New Hampshire, 1983

Primary reason for owning	Private owners		Sampling error, percent	Acres owned		Sampling error, percent
	Number	Percent		Number	Percent	
			HARVESTERS			
Land investment	3,300	7	24	457,600	13	16
Recreational use	1,400	3	52	158,500	5	31
Timber production	1,900	4	29	873,600	26	21
Farm and domestic use	6,600	14	46	333,000	10	17
Esthetic enjoyment	10,000	20	33	519,700	15	14
Part of farm	3,000	6	31	204,300	6	22
Part of residence	17,700	36	52	428,700	12	15
Estate	2,900	6	40	171,000	5	24
Other	2,000	4	35	238,200	7	21
No answer	200	W	78	28,800	1	58
Total	49,000	100	20.7	3,413,400	100	2.6
			NONHARVESTERS			
Land investment	11,700	30	76	157,700	22	26
Recreational use	200	1	49	55,400	8	41
Timber production	-	-	-	-	-	-
Farm and domestic use	5,800	15	77	46,600	6	45
Esthetic enjoyment	3,900	10	35	186,600	26	23
Part of farm	600	1	83	22,300	3	72
Part of residence	13,400	34	42	150,900	21	25
Estate	200	1	86	17,800	2	71
Other	3,200	8	64	75,500	10	36
No answer	100	W	87	17,800	2	71
Total	39,100	100	29.6	730,600	100	11.5
			ALL PRIVATE OWNERS			
Land investment	15,000	17	60	615,300	15	13
Recreational use	1,600	2	43	213,900	5	25
Timber production	1,900	2	29	873,600	21	21
Farm and domestic use	12,400	14	44	379,600	9	16
Esthetic enjoyment	13,900	16	25	706,300	17	12
Part of farm	3,600	4	29	226,600	5	21
Part of residence	31,100	35	34	579,600	14	13
Estate	3,100	4	38	188,800	5	22
Other	5,200	6	41	313,700	8	18
No answer	300	W	61	46,600	1	45
Total	88,100	100	17.1	4,144,000	100	.9

W-Fewer than 50 owners or less than 0.5 percent.

Table 18.--Estimated number of private ownership units and acres of timberland owned, by primary and secondary reason for owning, New Hampshire, 1983

Reason for owning	Primary reason		Secondary reason	
	Number	Percent	Number	Percent
		OWNERS		
Land investment	15,000	17	5,100	6
Recreational use	1,600	2	3,200	4
Timber production	1,900	2	11,200	13
Farm and domestic use	12,400	14	6,800	8
Esthetic enjoyment	13,900	16	27,800	31
Part of farm	3,600	4	3,200	4
Part of residence	31,100	35	4,600	5
Estate	3,100	4	3,700	4
Other	5,200	6	1,400	1
No secondary reason given	-	-	20,800	24
No answer	300	W	300	W
Total	88,100	100	88,100	100
		ACRES OWNED		
Land investment	615,300	15	320,400	8
Recreational use	213,900	5	304,200	7
Timber production	873,600	21	527,900	13
Farm and domestic use	379,600	9	384,200	9
Esthetic enjoyment	706,300	17	512,700	12
Part of farm	226,600	5	142,300	4
Part of residence	579,600	14	273,200	7
Estate	188,800	5	326,600	8
Other	313,700	8	134,900	3
No secondary reason given	-	-	1,171,000	28
No answer	46,600	1	46,600	1
Total	4,144,000	100	4,144,000	100

W-Fewer than 50 owners or less than 0.5 percent.

Table 19.--Estimated number of private ownership units and acres of timberland owned, by primary reason for owning and expected time of future harvest, New Hampshire, 1983

Primary reason for owning	Expected time of future harvest									
	Next 10 years		Indefinite		Never		No answer		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
					OWNERS					
Land investment	10,600	22	2,400	10	1,700	11	300	13	15,000	17
Recreational use	1,200	3	200	1	100	1	100	5	1,600	2
Timber production	1,400	3	400	2	-	-	100	4	1,900	2
Farm and domestic use	9,200	19	300	1	2,800	18	100	4	12,400	14
Esthetic enjoyment	10,800	23	1,900	8	1,200	8	W	W	13,900	16
Part of farm	2,100	5	800	4	-	-	700	31	3,600	4
Part of residence	8,700	18	14,900	65	6,700	43	800	35	31,100	35
Estate	2,400	5	700	3	-	-	-	-	3,100	4
Other	900	2	1,300	6	2,900	19	100	4	5,200	6
No answer	200	W	-	-	-	-	100	4	300	W
Total	47,500	100	22,900	100	15,400	100	2,300	100	88,100	100
					ACRES OWNED					
Land investment	346,600	11	168,700	25	40,000	22	60,000	25	615,300	15
Recreational use	140,700	5	44,300	6	8,900	5	20,000	8	213,900	5
Timber production	795,800	26	48,900	7	-	0	28,900	12	873,600	21
Farm and domestic use	330,800	11	17,700	3	11,100	6	20,000	8	379,600	9
Esthetic enjoyment	512,800	17	122,300	18	62,300	35	8,900	4	706,300	17
Part of farm	168,900	6	35,500	5	-	0	22,200	9	226,600	5
Part of residence	377,600	12	133,200	20	26,600	15	42,200	18	579,600	14
Estate	151,000	5	37,800	6	-	-	-	-	188,800	5
Other	187,100	6	66,600	10	31,100	17	28,900	12	313,700	8
No answer	37,700	1	-	-	-	-	8,900	4	46,600	1
Total	3,049,000	100	675,000	100	180,000	100	240,000	100	4,144,000	100

W-Fewer than 50 or less than 0.5 percent.

Table 20.--Estimated number of private ownership units and acres of timberland owned, by primary reason for owning, for harvesters and nonharvesters and region, New Hampshire, 1983

Primary reason for owning	Private owners		Sampling error, percent	Acres owned		Sampling error, percent
	Number	Percent		Number	Percent	
			NORTHERN REGION HARVESTERS			
Land investment	1,700	13	40	227,000	13	25
Recreational use	100	1	80	58,300	3	67
Timber production	500	4	45	643,200	38	27
Farm and domestic use	4,000	30	72	111,300	7	33
Esthetic enjoyment	2,200	17	35	200,400	12	26
Part of farm	1,500	11	47	89,000	5	37
Part of residence	1,800	14	36	189,200	11	26
Estate	500	4	50	55,700	3	46
Other	800	6	61	111,300	7	33
No answer	W	W	100	11,100	1	101
Total	13,100	100	23.5	1,696,500	100	3.8
			NONHARVESTERS			
Land investment	400	5	50	77,900	28	39
Recreational use	W	W	100	11,100	4	101
Timber production	-	-	-	-	-	-
Farm and domestic use	700	9	100	11,100	4	101
Esthetic enjoyment	1,500	20	55	89,000	32	37
Part of farm	600	8	83	22,300	8	72
Part of residence	1,800	24	57	44,500	16	51
Estate	-	-	-	-	-	-
Other	2,600	34	77	22,300	8	72
No answer	-	-	-	-	-	-
Total	7,600	100	32.6	278,200	100	22.2
			ALL PRIVATE OWNERS			
Land investment	2,100	10	34	304,900	15	22
Recreational use	100	1	62	69,400	3	59
Timber production	500	2	45	643,200	32	27
Farm and domestic use	4,700	23	63	122,400	6	32
Esthetic enjoyment	3,700	18	30	289,400	15	22
Part of farm	2,100	10	41	111,300	6	33
Part of residence	3,600	17	33	233,700	12	24
Estate	500	2	50	55,700	3	46
Other	3,400	17	60	133,600	7	31
No answer	W	W	100	11,100	1	101
Total	20,700	100	18.2	1,974,700	100	1.3

Continued

Table 20.--continued

Primary reason for owning	Private owners		Sampling error, percent	Acres owned		Sampling error, percent
	Number	Percent		Number	Percent	
			SOUTHERN REGION HARVESTERS			
Land investment	1,600	4	22	230,600	13	19
Recreational use	1,300	4	55	100,200	6	30
Timber production	1,400	4	36	230,400	13	20
Farm and domestic use	2,600	7	34	221,700	13	19
Esthetic enjoyment	7,800	22	41	319,300	19	16
Part of farm	1,500	4	41	115,300	7	27
Part of residence	15,900	44	58	239,500	14	18
Estate	2,400	7	47	115,300	7	27
Other	1,200	3	42	126,900	7	26
No answer	200	1	86	17,700	1	71
Total	35,900	100	27.0	1,716,900	100	3.5
			NONHARVESTERS			
Land investment	11,300	36	79	79,800	18	33
Recreational use	200	1	55	44,300	10	44
Timber production	-	-	-	-	-	-
Farm and domestic use	5,100	16	88	35,500	8	50
Esthetic enjoyment	2,400	7	44	97,600	21	30
Part of farm	-	-	-	-	-	-
Part of residence	11,600	37	47	106,400	23	28
Estate	200	1	86	17,800	4	71
Other	600	2	57	53,200	12	40
No answer	100	W	87	17,800	4	71
Total	31,500	100	35.9	452,400	100	12.6
			ALL PRIVATE OWNERS			
Land investment	12,900	19	69	310,400	14	16
Recreational use	1,500	2	47	144,500	7	24
Timber production	1,400	2	36	230,400	11	20
Farm and domestic use	7,700	11	59	257,200	12	18
Esthetic enjoyment	10,200	15	33	416,900	19	13
Part of farm	1,500	2	41	115,300	5	27
Part of residence	27,500	41	39	345,900	16	15
Estate	2,600	4	43	133,100	6	25
Other	1,800	3	34	180,100	8	22
No answer	300	1	65	35,500	2	50
Total	67,400	100	21.6	2,169,300	100	1.3

W-Fewer than 50 owners or less than 0.5 percent.

Table 21.--Estimated number of private ownership units and acres of timberland owned, by primary benefit received in the last 10 years and region, New Hampshire, 1983

Primary benefit	Private owners		Sampling error, percent	Acres owned		Sampling error, percent
	Number	Percent		Number	Percent	
			NORTHERN REGION			
Land value increase	2,300	11	41	339,000	17	22
Recreational use	100	1	63	33,400	2	59
Sale of timber	800	4	39	700,700	35	24
Farm and domestic use	3,600	17	37	133,600	7	31
Esthetic enjoyment	7,600	37	29	478,600	24	18
Firewood	5,000	24	57	222,600	11	24
Other	400	2	90	33,400	2	59
No answer	900	4	88	33,400	2	59
Total	20,700	100	18.2	1,974,700	100	1.3
			SOUTHERN REGION			
Land value increase	20,500	31	47	549,900	25	11
Recreational use	1,500	2	68	126,700	6	26
Sale of timber	1,500	2	33	239,300	11	19
Farm and domestic use	8,100	12	59	150,800	7	24
Esthetic enjoyment	15,700	23	33	567,700	26	11
Firewood	8,200	12	22	354,800	16	15
Other	11,100	17	80	126,900	6	26
No answer	800	1	78	53,200	3	40
Total	67,400	100	21.6	2,169,300	100	1.3
			STATE TOTAL			
Land value increase	22,800	26	43	888,900	21	11
Recreational use	1,600	2	63	160,100	4	24
Sale of timber	2,300	3	25	940,000	23	19
Farm and domestic use	11,700	13	43	284,400	7	19
Esthetic enjoyment	23,300	26	24	1,046,300	25	10
Firewood	13,200	15	26	577,400	14	13
Other	11,500	13	78	160,300	4	24
No answer	1,700	2	59	86,600	2	34
Total	88,100	100	17.1	4,144,000	100	.9

Table 22.--Estimated number of private ownership units and acres of timberland owned, by primary benefit expected in the next 10 years and expected time of future harvest, New Hampshire, 1983

Primary benefit	Expected time of future harvest									
	Next 10 years		Indefinite		Never		No answer		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
					OWNERS					
Land value increase	17,300	36	4,200	19	4,400	29	500	22	26,400	30
Recreational use	1,200	3	W	W	W	W	-	-	1,200	1
Sale of timber	2,200	4	500	2	-	-	100	4	2,800	3
Farm and domestic use	6,500	14	700	3	3,500	23	100	4	10,800	12
Esthetic enjoyment	9,800	21	7,100	31	6,700	43	100	4	23,700	27
Firewood	8,600	18	300	1	-	-	800	35	9,700	11
Other	700	1	9,800	43	-	-	-	-	10,500	12
No answer	1,200	3	300	1	800	5	700	31	3,000	4
Total	47,500	100	22,900	100	15,400	100	2,300	100	88,100	100
					ACRES OWNED					
Land value increase	508,900	17	275,200	41	88,900	50	95,500	40	968,500	23
Recreational use	111,800	4	17,700	2	8,900	5	-	-	138,400	3
Sale of timber	917,800	30	66,600	10	-	-	31,100	13	1,015,500	25
Farm and domestic use	259,800	8	20,000	3	20,000	11	20,000	8	319,800	8
Esthetic enjoyment	675,100	22	193,400	29	51,100	28	42,300	18	961,900	23
Firewood	397,400	13	37,700	5	-	-	31,100	13	466,200	11
Other	129,300	4	53,200	8	-	-	-	-	182,500	5
No answer	48,900	2	11,200	2	11,100	6	20,000	8	91,200	2
Total	3,049,000	100	675,000	100	180,000	100	240,000	100	4,144,000	100

W-Fewer than 50 owners or less than 0.5 percent.

Table 23.--Estimated number of private ownership units and acres of timberland owned, by primary benefit expected in the next 10 years and region, New Hampshire, 1983

Primary benefit	Private owners		Sampling error, percent	Acres owned		Sampling error, percent
	Number	Percent		Number	Percent	
			NORTHERN REGION			
Land value increase	1,900	9	32	347,600	17	42
Recreational use	W	W	99	47,100	2	81
Sale of timber	900	4	36	723,000	37	29
Farm and domestic use	5,700	28	52	133,600	7	39
Esthetic enjoyment	6,400	31	33	456,300	23	34
Firewood	3,300	16	37	155,800	8	25
Other	200	1	66	55,600	3	86
No answer	2,300	11	51	55,700	3	93
Total	20,700	100	18.2	1,974,700	100	21.6
			SOUTHERN REGION			
Land value increase	24,500	36	21	620,900	29	10
Recreational use	1,200	2	80	91,300	4	31
Sale of timber	1,900	3	23	292,500	13	17
Farm and domestic use	5,100	8	31	186,200	9	21
Esthetic enjoyment	17,300	26	18	505,600	23	12
Firewood	6,400	9	28	310,400	14	16
Other	10,300	15	46	126,900	6	26
No answer	700	1	46	35,500	2	50
Total	67,400	100	1.3	2,169,300	100	1.3
			STATE TOTAL			
Land value increase	26,400	30	39	968,500	23	10
Recreational use	1,200	1	78	138,400	3	34
Sale of timber	2,800	3	23	1,015,500	25	17
Farm and domestic use	10,800	12	33	319,800	8	18
Esthetic enjoyment	23,700	27	27	961,900	23	11
Firewood	9,700	11	21	466,200	11	14
Other	10,500	12	84	182,500	5	23
No answer	3,000	4	44	91,200	2	34
Total	88,100	100	17.1	4,144,000	100	.9

W-Fewer than 50 owners or less than 0.5 percent.

Table 24.--Estimated number of private ownership units that have harvested timber and acres of timberland owned, by reason for harvesting and form of ownership, New Hampshire, 1983

Reason for harvesting	Forest industry	Farmer	Individual	Corporate	Other	Total
			OWNERS			
Timber mature	100	600	6,800	100	100	7,700
Good price	-	-	100	W	300	400
Land clearing	-	200	11,600	500	300	12,600
Needed money	-	400	1,500	W	100	2,000
Own use	W	600	13,500	100	-	14,200
Company use	W	-	-	-	-	W
Timber salvage	-	100	1,200	W	100	1,400
Wildlife habitat	-	-	-	-	W	W
Improve view	W	100	100	-	-	200
Cultural treatment	100	600	6,100	W	200	7,000
Special tax treatment	-	-	500	-	-	500
Other	W	W	2,000	-	-	2,000
No answer	W	W	1,000	-	-	1,000
Total	200	2,600	44,400	700	1,100	49,000
			ACRES OWNED			
Timber mature	53,000	68,900	477,600	107,100	40,000	746,600
Good price	-	8,800	28,900	8,900	22,300	68,900
Land clearing	-	46,600	77,800	17,800	11,100	153,300
Needed money	-	46,500	162,100	20,000	8,900	237,500
Own use	8,900	86,600	599,400	8,900	-	703,800
Company use	411,600	-	-	-	-	411,600
Timber salvage	-	8,900	84,800	11,100	11,100	115,900
Wildlife habitat	-	-	-	-	8,900	8,900
Improve view	11,100	11,200	42,300	-	-	64,600
Cultural treatment	28,900	48,900	399,500	11,100	109,700	598,100
Special tax treatment	-	-	37,700	-	-	37,700
Other	66,000	8,900	31,100	-	-	106,000
No answer	78,300	11,100	71,100	-	-	160,500
Total	657,800	346,400	2,012,300	184,900	212,000	3,413,400

W-Fewer than 50 owners or less than 0.5 percent.

Table 25.--Estimated number of private ownership units that have harvested timber and acres of timberland owned, by reason for harvesting and region, New Hampshire, 1983

Reason for harvesting	Harvesters		Sampling error, percent	Acres owned		Sampling error, percent
	Number	Percent		Number	Percent	
NORTHERN REGION						
Timber mature	1,600	12	34	382,900	22	21
Good price	300	2	85	33,400	2	59
Land clearing	1,600	12	56	55,700	3	46
Needed money	200	2	43	77,900	5	39
Own use	6,000	45	49	233,700	14	24
Company use	W	W	46	332,000	19	57
Timber salvage	1,200	9	49	77,900	5	39
Wildlife habitat	-	-	-	-	-	-
Improve view	200	2	48	55,700	3	46
Cultural treatment	1,100	8	40	214,000	13	26
Special tax treatment	200	2	100	11,100	1	101
Other	200	2	82	88,300	5	75
No answer	500	4	70	133,900	8	59
Total	13,100	100	23.5	1,696,500	100	3.8
SOUTHERN REGION						
Timber mature	6,100	17	49	363,700	21	14
Good price	100	W	54	35,500	2	50
Land clearing	11,000	31	81	97,600	6	30
Needed money	1,800	5	30	159,600	9	23
Own use	8,200	23	21	470,100	27	12
Company use	W	W	48	79,600	4	39
Timber salvage	200	1	60	38,000	2	50
Wildlife habitat	W	W	100	8,900	W	100
Improve view	W	W	100	8,900	1	100
Cultural treatment	5,900	16	27	384,100	22	14
Special tax treatment	300	1	64	26,600	2	58
Other	1,800	5	99	17,700	1	71
No answer	500	1	74	26,600	2	58
Total	35,900	100	27.0	1,716,900	100	3.5

Continued

Table 25.--Continued

Reason for harvesting	Harvesters		Sampling error, percent	Acres owned		Sampling error, percent
	Number	Percent		Number	Percent	
			STATE TOTAL			
Timber mature	7,700	16	40	746,600	22	13
Good price	400	1	62	68,900	2	38
Land clearing	12,600	26	71	153,300	4	25
Needed money	2,000	4	27	237,500	7	20
Own use	14,200	29	24	703,800	21	11
Company use	W	W	41	411,600	12	46
Timber salvage	1,400	3	43	115,900	3	31
Wildlife habitat	W	W	100	8,900	W	100
Improve view	200	W	45	64,600	2	42
Cultural treatment	7,000	14	24	598,100	18	13
Special tax treatment	500	1	56	37,700	1	50
Other	2,000	4	89	106,000	3	64
No answer	1,000	2	51	160,500	5	50
Total	49,000	100	20.7	3,413,400	100	2.6

W-Fewer than 50 owners or less than 0.5 percent.

Table 26.--Estimated number of private ownership units that have not harvested timber and acres of timberland owned, by reason for not harvesting and form of ownership, New Hampshire, 1983

Reason for not harvesting	Forest industry	Farmer	Individual	Corporate	Other	Total
			OWNERS			
No market/low price	-	-	100	-	-	100
Timber immature	-	-	800	700	100	1,600
Ruin scenery	-	-	10,400	W	-	10,400
Destroy hunting	-	-	1,200	100	-	1,300
Distrust loggers	-	-	1,200	-	-	1,200
Opposed to harvest	-	-	2,000	-	8,900	10,900
Low volume	-	100	1,600	100	W	1,800
Insufficient knowledge	-	-	2,700	W	W	2,700
Other	-	300	2,300	100	W	2,700
No answer	-	W	6,300	-	100	6,400
Total	-	400	28,600	1,000	9,100	39,100
			ACRES OWNED			
No market/low price	-	-	22,200	-	-	22,200
Timber immature	-	-	46,600	17,700	22,300	86,600
Ruin scenery	-	-	104,300	8,900	-	113,200
Destroy hunting	-	-	29,000	11,100	-	40,100
Distrust loggers	-	-	28,800	-	-	28,800
Opposed to harvest	-	-	86,600	-	8,900	95,500
Low volume	-	8,900	48,900	8,800	8,900	75,500
Insufficient knowledge	-	-	71,100	8,900	8,900	88,900
Other	-	8,900	104,400	8,900	8,800	131,000
No answer	-	8,900	31,100	-	8,800	48,800
Total	-	26,700	573,000	64,300	66,600	730,600

W-Fewer than 50 owners or less than 0.5 percent.

Table 27.--Estimated number of private ownership units that have not harvested timber and acres of timberland owned, by reason for not harvesting and region, New Hampshire, 1983

Reason for not harvesting	Nonharvesters		Sampling error, percent	Acres owned		Sampling error, percent
	Number	Percent		Number	Percent	
NORTHERN REGION						
No market/low price	100	1	92	22,200	8	72
Timber immature	200	3	67	33,400	12	59
Ruin scenery	300	4	60	33,400	12	59
Destroy hunting	100	1	80	22,300	8	72
Distrust loggers	400	5	100	11,100	4	101
Opposed to harvest	800	11	90	33,400	12	59
Low volume	1,400	18	71	22,300	8	72
Insufficient knowledge	1,300	17	64	44,500	16	51
Other	1,100	15	73	33,400	12	59
No answer	1,900	25	98	22,200	8	72
Total	7,600	100	32.6	278,200	100	22.2
SOUTHERN REGION						
No market/low price	-	-	-	-	-	-
Timber immature	1,400	5	47	53,200	12	40
Ruin scenery	10,100	32	53	79,800	17	33
Destroy hunting	1,200	4	93	17,800	4	71
Distrust loggers	800	3	98	17,700	4	71
Opposed to harvest	10,100	32	88	62,100	14	37
Low volume	400	1	45	53,200	12	40
Insufficient knowledge	1,400	4	80	44,400	10	44
Other	1,600	5	43	97,600	21	30
No answer	4,500	14	98	26,600	6	58
Total	31,500	100	35.9	452,400	100	12.6
STATE TOTAL						
No market/low price	100	W	92	22,200	3	72
Timber immature	1,600	4	42	86,600	12	34
Ruin scenery	10,400	27	52	113,200	16	29
Destroy hunting	1,300	3	88	40,100	5	51
Distrust loggers	1,200	3	72	28,800	4	58
Opposed to harvest	10,900	28	81	95,500	13	32
Low volume	1,800	5	55	75,500	10	36
Insufficient knowledge	2,700	7	52	88,900	12	34
Other	2,700	7	39	131,000	18	27
No answer	6,400	16	75	48,800	7	45
Total	39,100	100	29.6	730,600	100	11.5

W-Fewer than 50 owners or less than 0.5 percent.

Table 28.--Estimated number of private ownership units and acres of timberland owned, by expected time of future harvest and by harvesters and nonharvesters, New Hampshire, 1983

Expected time of future harvest	Private ownership units			Acres owned		
	Number	Percent	Sampling error, percent	Number	Percent	Sampling error, percent
			HARVESTERS			
1-10 years	26,800	55	15	2,704,800	79	5
Indefinite	17,500	36	52	492,900	15	14
Never	3,400	7	82	44,600	1	51
No answer	1,300	2	48	171,100	5	25
Total	49,000	100	20.7	3,413,400	100	2.6
			NONHARVESTERS			
1-10 years	20,700	53	49	344,200	47	17
Indefinite	5,400	14	38	182,100	25	23
Never	12,000	31	46	135,400	19	27
No answer	1,000	2	71	68,900	9	38
Total	39,100	100	29.6	730,600	100	11.5
			ALL PRIVATE OWNERS			
1-10 years	47,500	54	23	3,049,000	74	4
Indefinite	22,900	26	41	675,000	16	12
Never	15,400	17	40	180,000	4	24
No answer	2,300	3	41	240,000	6	21
Total	88,100	100	17.1	4,144,000	100	.9

Table 29.--Estimated number of private ownership units and acres of timberland owned, by expected time of future harvest and by harvesters and nonharvesters, Northern Region, New Hampshire, 1983

Expected time of future harvest	Private ownership units			Acres owned		
	Number	Percent	Sampling error, percent	Number	Percent	Sampling error, percent
			HARVESTERS			
1-10 years	6,900	53	19	1,395,900	82	7
Indefinite	1,800	14	38	155,800	9	28
Never	3,400	26	82	44,600	3	51
No answer	1,000	7	61	100,200	6	35
Total	13,100	100	23.5	1,696,500	100	3.8
			NONHARVESTERS			
1-10 years	2,900	38	44	122,400	44	32
Indefinite	1,100	14	49	66,800	24	42
Never	2,800	37	72	55,600	20	46
No answer	800	11	90	33,400	12	59
Total	7,600	100	32.6	278,200	100	22.2
			ALL PRIVATE OWNERS			
1-10 years	9,800	47	18	1,518,300	77	6
Indefinite	2,900	14	29	222,600	11	24
Never	6,200	30	55	100,200	5	35
No answer	1,800	9	52	133,600	7	31
Total	20,700	100	18.2	1,974,700	100	1.3

Table 30.--Estimated number of private ownership units and acres of timberland owned, by expected time of future harvest and by harvesters and nonharvesters, Southern Region, New Hampshire, 1983

Expected time of future harvest	Private ownership units			Acres owned		
	Number	Percent	Sampling error, percent	Number	Percent	Sampling error, percent
			HARVESTERS			
1-10 years	19,900	55	19	1,308,900	76	5
Indefinite	15,700	44	58	337,100	20	15
Never	-	-	-	-	-	0
No answer	300	1	42	70,900	4	35
Total	35,900	100	27.0	1,716,900	100	3.5
			NONHARVESTERS			
1-10 years	17,800	56	56	221,800	49	19
Indefinite	4,300	14	46	115,300	25	27
Never	9,200	29	56	79,800	18	33
No answer	200	1	53	35,500	8	50
Total	31,500	100	35.9	452,400	100	12.6
			ALL PRIVATE OWNERS			
1-10 years	37,700	56	28	1,530,700	70	4
Indefinite	20,000	30	46	452,400	21	13
Never	9,200	13	56	79,800	4	33
No answer	500	1	33	106,400	5	28
Total	67,400	100	21.6	2,169,300	100	1.3

Table 31.--Estimated number of private ownership units and acres of timberland owned, by size class and expected time of future harvest, New Hampshire, 1983

Size class (acres)	Expected time of future harvest									
	Next 10 years		Indefinite		Never		No answer		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
					OWNERS					
1-9	20,700	43	13,200	58	12,400	80	-	-	46,300	53
10-19	7,900	17	1,600	7	1,500	10	600	26	11,600	13
20-49	6,500	14	4,600	20	1,100	7	600	26	12,800	15
50-99	6,200	13	1,800	8	-	-	300	13	8,300	9
100-199	3,700	8	1,100	5	400	3	500	22	5,700	6
200-499	1,900	4	500	2	W	W	200	9	2,600	3
500-999	400	1	W	W	W	W	100	4	500	1
1000-4999	200	W	100	W	-	-	W	W	300	W
5000+	W	W	W	W	-	-	-	-	W	W
Total	47,500	100	22,900	100	15,400	100	2,300	100	88,100	100
					ACRES OWNED					
1-9	62,000	2	35,500	5	48,900	27	-	-	146,400	3
10-19	117,800	4	26,600	4	20,000	11	11,100	5	175,500	4
20-49	208,700	7	146,600	22	40,000	23	11,100	5	406,400	10
50-99	415,100	14	128,700	19	-	-	22,300	9	566,100	14
100-199	470,600	15	144,300	21	48,900	27	64,400	27	728,200	18
200-499	544,300	18	124,400	19	11,100	6	46,600	19	726,400	18
500-999	275,500	9	20,000	3	11,100	6	31,100	13	337,700	8
1000-4999	273,200	9	28,900	4	-	-	53,400	22	355,500	8
5000+	681,800	22	20,000	3	-	-	-	-	701,800	17
Total	3,049,000	100	675,000	100	180,000	100	240,000	100	4,144,000	100

W-Fewer than 50 owners or less than 0.5 percent.

Table 32.--Estimated number of private ownership units that have harvested timber and acres of timberland owned, by individual selecting timber for sale and individual selecting timber for own use, New Hampshire, 1983

Individual selecting timber for sale	Own use								
	Landowner	Forester[b]	Buyer	Landowner forester	Landowner buyer	Forester buyer	Other[a]	No answer	Total
				HARVESTERS					
Landowner	2,700	-	-	-	100	-	-	1,300	4,100
Forester[b]	700	1,200	W	200	400	-	-	2,800	4,500
Buyer	1,300	100	200	-	100	-	100	1,000	3,600
Landowner/forester	400	-	-	600	-	-	-	200	1,200
Landowner/buyer	600	-	-	-	1,000	-	-	200	1,800
Forester/buyer	300	500	-	-	-	100	-	200	1,100
Other[a]	-	-	-	-	-	-	100	-	100
No Answer	28,100	500	200	300	-	-	900	2,600	32,600
Total	34,100	2,300	400	1,100	1,600	100	1,100	8,300	49,000
				ACRES OWNED					
Landowner	382,100	-	-	-	11,100	-	-	95,500	488,700
Forester[b]	86,600	319,100	8,900	20,000	11,100	-	-	525,200	970,900
Buyer	135,500	8,900	37,700	-	11,100	-	17,800	257,700	468,700
Landowner/forester	26,600	-	-	169,900	-	-	-	247,300	443,800
Landowner/buyer	37,700	-	-	-	40,100	-	-	28,800	136,600
Forester/buyer	26,600	8,900	-	-	-	22,300	-	62,200	120,000
Other[a]	-	-	-	-	-	-	22,300	-	22,300
No Answer	510,500	26,600	17,700	31,100	-	-	57,700	148,800	792,400
Total	1,205,600	363,500	64,300	221,000	73,400	22,300	97,800	1,365,500	3,443,400

[a] Includes friend, landowner/friend, friend/buyer.

[b] 7,700 owners with 1,610,200 acres had a forester involved in choosing trees from harvest on their forestland.

W-Fewer than 50 owners or less than 0.5 percent.

Table 33.--Estimated number of private ownership units that have harvested timber and acres of timberland owned, by individual selecting timber for sale and class of ownership, New Hampshire, 1983

Individual selecting timber for sale	Forest industry		Nonindustrial private landowners						Total	
			1 - 49 acres		50 - 499 acres		500+ acres			
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
HARVESTERS										
Landowner	100	50	1,900	5	2,000	15	100	17	4,100	8
Forester	W	W	1,500	4	2,800	21	200	33	4,500	9
Buyer	100	50	1,000	3	2,400	18	100	17	3,600	7
Landowner/forester	W	W	900	3	200	2	100	17	1,200	3
Landowner/buyer	W	W	1,200	3	600	4	W	W	1,800	4
Forester/buyer	W	W	500	2	600	4	W	W	1,100	2
Other[a]	-	-	-	-	100	1	-	-	100	W
No Answer	W	W	27,900	80	4,600	35	100	16	32,600	67
Total	200	100	34,900	100	13,300	100	600	100	49,000	100
ACRES OWNED										
Landowner	66,600	10	57,700	13	244,400	15	120,000	18	488,700	14
Forester	234,500	36	51,100	11	359,800	22	325,500	48	970,900	28
Buyer	24,500	4	46,600	10	324,200	20	73,400	11	468,700	14
Landowner/forester	303,300	46	26,600	6	37,800	2	76,100	11	443,800	13
Landowner/buyer	8,900	1	28,900	6	46,600	3	22,200	3	106,600	3
Forester/buyer	8,900	1	8,900	2	80,000	5	22,200	3	120,000	4
Other[a]	-	-	-	-	22,300	2	-	-	22,300	1
No Answer	11,100	2	239,800	52	505,900	31	35,600	6	792,400	23
Total	657,800	100	459,600	100	1,621,000	100	675,000	100	3,413,400	100

[a] Includes friend, landowner/friend, friend/buyer.
W-Fewer than 50 owners or less than 0.5 percent.

Table 34.--Estimated number of private ownership units that have harvested timber and acres of timberland owned, by individual selecting timber for own use and size class of ownership, New Hampshire, 1983

Individual selecting timber for own use	Forest industry		Nonindustrial private landowners						Total	
			1 - 49 acres		50 - 499 acres		500+ acres			
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
					HARVESTERS					
Landowner	100	50	27,400	78	6,300	47	300	50	34,100	70
Forester	W	W	1,100	3	1,100	8	100	17	2,300	5
Buyer	-	-	-	-	400	3	W	W	400	1
Landowner/forester	W	W	500	2	600	4	W	W	1,100	2
Landowner/buyer	100	50	1,300	4	200	2	W	W	1,600	3
Forester/buyer	-	-	-	-	100	1	-	-	100	W
Other[a]	-	-	300	1	800	6	W	W	1,100	2
No Answer	W	W	4,300	12	3,800	29	200	33	8,300	17
Total	200	100	34,900	100	13,300	100	600	100	49,000	100
					ACRES OWNED					
Landowner	46,600	7	261,900	57	721,600	45	175,500	26	1,205,600	35
Forester	85,600	13	26,600	6	124,400	8	126,900	19	363,500	11
Buyer	-	-	-	-	55,400	3	8,900	1	64,300	2
Landowner/forester	78,300	12	17,700	4	68,900	4	56,100	8	221,000	6
Landowner/buyer	8,900	1	31,100	7	22,300	1	11,100	2	73,400	2
Forester/buyer	-	-	-	-	22,300	1	-	-	22,300	1
Other[a]	-	-	11,100	2	77,800	5	8,900	1	97,800	3
No Answer	438,400	67	111,200	24	528,300	33	287,600	43	1,365,500	40
Total	657,800	100	459,600	100	1,621,000	100	675,000	100	3,413,400	100

[a] Includes friend, landowner/friend, friend/buyer.

W-Fewer than 50 owners or less than 0.5 percent.

Table 35.--Estimated number of private ownership units that have harvested timber and acres of timberland owned, by method of selecting timber for sale and method of selecting timber for own use, New Hampshire, 1983

Method of selecting timber for own use	Industrial use									
	Marked trees	Diameter limit	All trees	Land clearing	Logger's pick	Other	Combination of methods	Don't know	No answer	Total
					HARVESTERS					
Marked trees	3,000	-	-	600	200	100	500	-	2,200	6,600
Diameter limit	200	700	-	-	-	W	-	-	500	1,400
All trees	-	-	700	-	100	-	100	-	W	900
Land clearing	-	W	-	100	-	-	-	-	500	600
Logger's pick	500	-	-	-	1,400	300	-	100	600	2,900
Other trees	-	-	-	-	-	100	-	-	200	300
Combination	200	W	W	W	-	200	1,400	-	1,600	3,400
Don't know	-	-	-	-	-	100	-	-	300	400
No answer	2,300	5,100	3,400	9,400	300	3,300	4,700	1,000	3,000	32,500
Total	6,200	5,800	4,100	10,100	2,000	4,100	6,700	1,100	8,900	49,000
					ACRES OWNED					
Marked trees	408,800	-	-	35,500	17,700	17,700	37,700	-	311,000	828,400
Diameter limit	17,700	84,300	-	-	-	8,900	-	-	102,300	213,200
All trees	-	-	53,400	-	11,100	-	8,900	-	8,800	82,200
Land clearing	-	8,900	-	31,100	-	-	-	-	8,800	48,800
Loggers pick	31,100	-	-	-	137,700	20,000	37,800	-	102,300	328,900
Other trees	-	-	-	-	-	8,900	-	-	17,700	26,600
Combination	46,600	8,900	8,900	11,100	-	46,600	375,900	-	601,300	1,099,300
Don't know	-	-	-	-	-	8,900	-	-	20,000	28,900
No answer	193,200	82,100	57,700	46,700	26,700	62,000	117,600	40,000	131,100	757,100
Total	697,400	184,200	120,000	124,400	193,200	173,000	577,900	40,000	1,303,300	3,413,400

W-Fewer than 50 owners or less than 0.5 percent.

Table 36.--Estimated number of private ownership units that have harvested timber and acres of timberland owned, by method of selecting timber for sale and size class of ownership, New Hampshire, 1983

Method of selecting timber for sale	Forest industry		Nonindustrial private landowners						Total	
			1 - 49 acres		50 - 499 acres		500+ acres			
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
					HARVESTERS					
Marked trees	W	W	3,100	9	3,300	25	200	33	6,600	13
Diameter limit	100	50	200	1	1,100	8	W	W	1,400	3
All trees	-	-	500	1	400	3	W	W	900	2
Land clearing	-	-	500	1	100	1	W	W	600	1
Logger's pick	W	W	1,300	4	1,500	11	100	17	2,900	6
Other	-	-	-	-	300	2	-	-	300	1
Combination	100	50	1,300	4	1,800	14	200	33	3,400	7
Don't know	-	-	200	1	200	2	-	-	400	1
No answer	W	W	27,800	79	4,600	34	100	17	32,500	66
Total	200	100	34,900	100	13,300	100	600	100	49,000	100
					ACRES OWNED					
Marked trees	52,600	8	97,800	22	422,100	26	255,900	38	828,400	24
Diameter limit	42,300	6	8,800	2	130,900	8	31,200	5	213,200	6
All trees	-	-	11,100	2	60,000	4	11,100	2	82,200	3
Land clearing	-	-	8,800	2	31,100	2	8,900	1	48,800	1
Logger's pick	20,000	3	35,500	8	197,700	12	75,700	11	328,900	10
Other	-	-	-	-	26,600	2	-	-	26,600	1
Combination	531,800	81	46,600	10	255,300	16	265,600	39	1,099,300	32
Don't know	-	-	11,100	2	17,800	1	-	-	28,900	1
No answer	11,100	2	239,900	52	479,500	29	26,600	4	757,100	22
Total	657,800	100	459,600	100	1,621,000	100	675,000	100	3,413,400	100

W-Fewer than 50 owners or less than 0.5 percent.

Table 37.--Estimated number of private ownership units that have harvested timber and acres of timberland owned, by method of selecting timber for own use and size class of ownership, New Hampshire, 1983

Method of selecting timber for own use	Forest industry		Nonindustrial private landowners						Total	
			1 - 49 acres		50 - 499 acres		500+ acres			
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
HARVESTERS										
Marked trees	W	W	2,500	7	3,600	27	100	17	6,200	13
Diameter limit	W	W	4,800	14	1,000	8	W	W	5,800	12
All trees	W	W	3,500	10	600	5	W	W	4,100	8
Land clearing	-	-	9,700	28	400	3	W	W	10,100	21
Logger's pick	100	50	800	2	1,000	7	100	17	2,000	4
Other	-	-	3,000	9	1,000	7	100	17	4,100	8
Combination	W	W	4,800	14	1,800	14	100	17	6,700	14
Don't know	-	-	800	2	300	2	-	-	1,100	2
No answer	100	50	5,000	14	3,600	27	200	32	8,900	18
Total	200	100	34,900	100	13,300	100	600	100	49,000	100
ACRES OWNED										
Marked trees	41,500	7	84,400	18	417,700	26	153,800	23	697,400	20
Diameter Limit	8,900	1	44,300	10	102,100	6	28,900	4	184,200	5
All trees	8,900	1	31,100	7	68,900	4	11,000	2	120,000	4
Land clearing	-	-	28,900	6	66,600	4	28,900	4	124,400	4
Logger's pick	20,000	3	17,700	4	113,200	7	42,300	6	193,200	6
Other	-	-	26,600	6	108,700	7	37,700	5	173,000	5
Combination	153,200	23	84,400	18	228,500	14	111,800	17	577,900	17
Don't know	-	-	11,100	2	28,900	2	-	-	40,000	1
No answer	425,300	65	131,100	29	486,400	30	260,500	39	1,303,300	38
Total	657,800	100	459,600	100	1,621,000	100	674,900	100	3,413,400	100

W-Fewer than 50 owners or less than 0.5 percent.

Table 38.--Estimated number of private ownership units that have harvested timber and acres of timberland owned, by individual selecting timber for sale and method of selecting timber for sale, New Hampshire, 1983

Individual selecting timber for sale	Industrial use									
	Marked trees	Diameter limit	All trees	Land clearing	Logger's pick	Other	Combination of methods	Don't know	No answer	Total
					HARVESTERS					
Landowner	1,100	700	300	600	100	100	1,200	-	-	4,100
Forester	3,900	W	-	-	-	200	400	-	-	4,500
Buyer	200	400	W	-	1,400	-	1,200	400	-	3,600
Landowner/forester	700	-	-	-	400	-	100	-	-	1,200
Landowner/buyer	-	300	500	-	800	-	200	-	-	1,800
Forester/buyer	500	100	100	-	100	-	300	-	-	1,100
Other[a]	100	-	-	-	-	-	-	-	-	100
No answer	W	-	-	-	100	-	W	-	32,500	32,600
Total	6,500	1,500	900	600	2,900	300	3,400	400	32,500	49,000
					ACRES OWNED					
Landowner	113,200	77,800	42,300	48,800	51,100	8,900	146,600	-	-	488,700
Forester	508,400	20,000	-	-	-	17,700	424,800	-	-	970,900
Buyer	28,900	77,700	8,800	-	202,300	-	122,100	28,900	-	468,700
Landowner/forester	126,800	-	-	-	8,900	-	308,100	-	-	443,800
Landowner/buyer	-	17,700	22,300	-	37,700	-	28,900	-	-	106,600
Forester/buyer	20,000	20,000	8,800	-	11,100	-	60,000	-	-	120,000
Other[a]	22,300	-	-	-	-	-	-	-	-	22,300
No answer	8,800	-	-	-	17,700	-	8,800	-	757,100	792,400
Total	828,400	213,200	82,200	48,800	328,900	26,600	1,099,300	28,900	757,100	3,413,400

[a] Includes friend, landowner/friend, friend/buyer.

W-Fewer than 50 owners or less than 0.5 percent.

Table 39.--Estimated number of private ownership units that have harvested timber and acres of timberland owned, by individual selecting timber for own use and method of selecting timber for own use, New Hampshire, 1983

Individual selecting timber for own use	Method of selecting timber for own use									
	Marked trees	Diameter limit	All trees	Land clearing	Logger's pick	Other	Combination of methods	Don't know	No answer	Total
					HARVESTERS					
Landowner	3,100	5,700	3,500	9,600	1,100	4,000	5,600	700	800	34,100
Forester	1,500	W	-	500	100	-	200	-	-	2,300
Buyer	100	W	-	-	100	-	200	-	W	400
Landowner/forester	1,000	-	-	-	-	-	100	-	-	1,100
Landowner/buyer	-	-	500	-	500	-	500	-	-	1,500
Forester/buyer	W	-	-	-	100	-	-	-	-	100
Other[a]	400	-	100	-	100	100	-	400	-	1,100
No answer	100	100	-	W	-	-	100	W	8,100	8,400
Total	6,200	5,800	4,100	10,100	2,000	4,100	6,700	1,100	8,900	49,000
					ACRES OWNED					
Landowner	291,000	157,500	88,800	88,900	126,600	164,200	237,500	11,100	40,000	1,205,600
Forester	177,300	8,900	-	26,600	8,900	-	141,800	-	-	363,500
Buyer	11,100	8,900	-	-	8,900	-	26,500	-	8,900	64,300
Landowner/forester	125,000	-	-	-	-	-	96,000	-	-	221,000
Landowner/buyer	-	-	22,300	-	28,800	-	22,300	-	-	73,400
Forester/buyer	11,200	-	-	-	11,100	-	-	-	-	22,300
Other[a]	42,200	-	8,900	-	8,900	8,900	8,900	20,000	-	97,800
No answer	39,600	8,900	-	8,900	-	-	44,800	8,900	1,254,400	1,365,500
Total	697,400	184,200	120,000	124,400	193,200	173,100	577,800	40,000	1,303,300	3,413,400

[a] Includes friend, landowner/friend, friend/buyer.

W-Fewer than 50 owners or less than 0.5 percent.

Table 40.--Estimated number of private ownership units and acres of timberland owned, by timber product harvested, forest industry, and private landowners (size class ownership), New Hampshire, 1983

Timber products	Forest industry		Nonindustrial private landowners						Total	
			1 - 49 acres		50 - 499 acres		500+ acres			
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
OWNERS										
Fuelwood-personal	100	50	31,200	89	10,600	80	400	67	42,300	86
Fuelwood-sale	200	100	2,000	6	3,500	26	300	50	6,000	12
Sawlogs	200	100	6,300	18	7,600	57	600	100	14,700	30
Pulpwood	100	50	2,000	6	2,400	18	400	67	4,900	10
Other-personal	W	W	1,900	5	900	7	100	17	2,900	6
Christmas trees	100	50	3,200	9	1,100	8	100	17	4,500	9
Other products-sale	100	50	2,700	8	700	5	W	W	3,500	7
Don't know	-	-	-	-	100	1	-	-	100	W
Total[a]	200	100	34,900	100	13,300	100	600	100	49,000	100
ACRES OWNED										
Fuelwd-personal	168,700	26	357,400	78	1,241,200	77	396,200	59	2,163,500	63
Fuelwood-sale	617,800	94	64,300	14	441,800	27	394,400	58	1,518,300	44
Sawlogs	648,900	99	202,100	44	986,100	61	639,400	95	2,476,500	73
Pulpwood	604,500	92	68,900	15	360,300	22	436,100	65	1,469,800	43
Other-personal	74,900	11	57,700	13	95,500	6	55,500	8	283,600	8
Christmas trees	24,500	4	17,700	4	137,700	8	113,900	17	293,800	9
Other-sale	159,900	24	44,400	10	97,700	6	95,900	14	397,900	12
Don't know	-	-	-	-	8,900	1	-	-	8,900	W
Total[a]	657,800	100	459,600	100	1,621,000	100	675,000	115	3,413,400	100

[a] Items do not add to totals because some owners harvested more than one product.
W-Fewer than 50 owners or less than 0.5 percent.

Table 41.--Estimated number of private ownership units and acres of timberland owned, by agency that owners would contact for forestry assistance, and size class of ownership, New Hampshire, 1983

Agency	Forest industry		Nonindustrial private landowners						Total	
			1 - 49 acres		50 - 499 acres		500+ acres			
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
OWNERS										
County or district forester	100	50	14,800	21	5,200	32	200	29	20,300	23
State forester	-	-	12,100	17	400	2	W	W	12,500	14
Soil Conservation Service	-	-	-	-	500	3	W	W	500	1
U.S. Forest Service	-	-	-	-	100	1	-	-	100	W
Agricultural Stabilization and Conservation Service	-	-	-	-	100	1	W	W	100	W
Consultant or industry forester	W	W	200	W	700	4	100	14	1,000	1
Extension service	W	W	13,000	18	3,200	19	100	14	16,300	18
Other	W	W	1,100	2	400	2	W	W	1,500	2
Don't know	W	W	24,600	35	2,300	14	100	14	27,000	31
No answer	100	50	4,900	7	3,600	22	200	29	8,800	10
Total	200	100	70,700	100	16,500	100	700	100	88,100	100
ACRES OWNED										
County or district forester	17,800	3	208,700	29	655,100	33	211,500	28	1,093,100	26
State forester	-	-	46,600	6	44,300	2	8,900	1	99,800	2
Soil Conservation Service	-	-	-	-	37,800	2	11,100	1	48,900	1
U.S. Forest Service	-	-	-	-	17,700	1	-	-	17,700	W
Agricultural Stabilization and Conservation Service	-	-	-	-	20,000	1	11,100	1	31,100	1
Consultant or industry forester	373,800	57	8,900	1	122,300	6	93,700	12	598,700	15
Extension service	103,400	15	126,600	17	348,700	18	122,000	16	700,700	17
Other	11,100	2	17,700	3	46,600	2	68,900	9	144,300	4
Don't know	11,100	2	257,600	35	277,400	14	80,000	11	626,100	15
No answer	140,600	21	62,200	9	421,900	21	158,900	21	783,600	19
Total	657,800	100	728,300	100	1,991,800	100	766,100	100	4,144,000	100

W-Fewer than 50 owners or less than 0.5 percent.

Table 42.--Estimated number of private ownership units and acres of timberland owned, by harvesters and nonharvesters, size class, and decision to seek assistance, New Hampshire, 1983

Assistance	Forest industry		Nonindustrial private landowners								
			1 - 49 acres		50 - 499 acres		500+ acres		Total		Sampling error, percent
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	
					HARVESTERS						
Sought assistance	100	50	10,700	31	8,300	62	500	83	19,600	40	18
No assistance	100	50	23,300	67	4,800	36	100	17	28,300	58	34
No answer	W	W	900	2	200	2	W	W	1,100	2	63
Total	200	100	34,900	100	13,300	100	600	100	49,000	100	20.7
					NONHARVESTERS						
Sought assistance	-	-	7,700	22	1,200	38	100	100	9,000	23	52
No assistance	-	-	28,100	78	1,800	56	W	W	29,900	76	36
No answer	-	-	-	-	200	6	W	W	200	1	55
Total	-	-	35,800	100	3,200	100	100	100	39,100	100	29.6
					TOTAL						
Sought assistance	100	50	18,400	26	9,500	58	600	86	28,600	33	20
No assistance	100	50	51,400	73	6,600	40	100	14	58,200	66	25
No answer	W	W	900	1	400	2	W	W	1,300	1	54
Total	200	100	70,700	100	16,500	100	700	100	88,100	100	17.1

Continued

Table 42--Continued

Assistance	Forest industry		Nonindustrial private landowners								Sampling error, percent
			1 - 49 acres		50 - 499 acres		500+ acres		Total		
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	
					ACRES OWNED BY HARVESTERS						
Sought assist.	591,200	90	199,800	44	1,050,400	65	590,400	88	2,431,800	71	5
No assistance	57,700	9	239,800	52	550,600	34	75,700	11	923,800	27	10
No answer	8,900	1	20,000	4	20,000	1	8,900	1	57,800	2	41
Total	657,800	100	459,600	100	1,621,000	100	675,000	100	3,413,400	100	2.6
					NONHARVESTERS						
Sought assistance	-	-	77,700	29	139,900	38	51,100	56	268,700	37	19
No assistance	-	-	191,000	71	202,100	54	31,100	34	424,200	58	15
No answer	-	-	-	-	28,800	8	8,900	10	37,700	5	50
Total	-	-	268,700	100	370,800	100	91,100	100	730,600	100	11.5
					TOTAL						
Sought assist.	591,200	90	277,500	38	1,190,300	60	641,500	84	2,700,500	65	5
No assistance	57,700	9	430,800	59	752,700	38	106,800	14	1,348,000	33	8
No answer	8,900	1	20,000	3	48,800	2	17,800	2	95,500	2	32
Total	657,800	100	728,300	100	1,991,800	100	766,100	100	4,144,000	100	.9

W-Fewer than 50 owners or less than 0.5 percent

Table 43.--Estimated number of private ownership units and acres of timberland owned, by agency that owners would contact for forestry assistance, and decision to seek assistance, New Hampshire, 1983

Agency	Sought assistance		No assistance		No answer		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
			OWNERS					
County or extension forester	22,100	78	14,500	25	-	-	36,600	41
State forestry	1,000	3	11,500	20	-	-	12,500	14
Soil Conservation Service	300	1	200	W	-	-	500	1
Forest Service	-	-	100	W	-	-	100	W
Agricultural Stabilization and Conservation Service	100	W	W	W	-	-	100	W
Consultant or industry forester	1,000	3	W	W	-	-	1,000	1
Other	700	3	800	2	-	-	1,500	2
Don't know	1,800	6	25,200	43	-	-	27,000	31
No answer	1,600	6	5,900	10	1,300	100	8,800	10
Total	28,600	100	58,200	100	1,300	100	88,100	100
			ACRES OWNED					
County or extension forester	1,405,000	52	388,800	29	-	-	1,793,800	26
State forestry	37,700	1	62,100	4	-	-	99,800	2
Soil Conservation Service	40,000	2	8,900	1	-	-	48,900	1
Forest Service	-	-	17,700	1	-	-	17,700	W
Agricultural Stabilization and Conservation Service	20,000	1	11,100	1	-	-	31,100	1
Consultant or industry forester	578,700	21	20,000	1	-	-	598,700	15
Other	106,600	4	37,700	3	-	-	144,300	4
Don't know	131,000	5	495,100	37	-	-	626,100	15
No answer	381,500	14	306,600	23	95,500	100	783,600	19
Total	2,700,500	100	1,348,000	100	95,500	100	4,144,000	100

W-Fewer than 50 owners or less than 0.5 percent.

Table 44.--Estimated number of private ownership units that have received forestry assistance and acres of timberland owned, by type of assistance, New Hampshire, 1983

Type of assistance	Owners assisted		Acres owned	
	Number	Percent	Number	Percent
Information about forestry	14,500	16	1,428,900	34
Help with tree planting	7,400	8	639,700	15
General forest management	17,000	19	1,830,500	44
Information about wildlife	3,400	4	234,800	6
Help with timber sales	5,300	6	633,500	15
Help with insects or diseases	2,500	3	197,700	5
Information on taxes	1,700	2	229,000	6
Information on forest recreation	W	W	19,800	1
Other	1,300	1	295,500	7
Total[a]	28,600	59	2,700,500	65
No answer	59,500	32	1,443,500	35

[a] Individual items do not add to total because some owners have received more than one type of assistance.

W-Fewer than 50 owners or less than 0.5 percent.

Table 45.--Estimated number of private ownership units and acres of timberland owned, by availability for recreation, New Hampshire, 1983

Recreation availability	Private owners			Acres owned		
	Number	Percent	Sampling error, percent	Number	Percent	Sampling error, percent
Owner permits recreation and does not recreate	20,600	23	48	815,100	20	15
Owner recreates and permits recreation	21,700	25	26	606,100	14	12
Owner recreates and excludes others recreation	12,500	14	26	1,795,000	43	9
Owner recreates and did not answer on availability	200	W	99	28,900	1	57
Subtotal recreation	55,000	62	21	3,245,100	78	3
Recreation not permitted	30,600	35	32	774,600	19	11
No answer	2,500	3	51	124,300	3	28
Total	88,100	100	17.1	4,144,000	100	0.9

W-Fewer than 50 owners or less than 0.5 percent.

Table 46.--Estimated number of private ownership units and acres of timberland owned, by type of recreational use by the owner, the owner's family, or immediate circle of friends, New Hampshire, 1983

Recreation by owner, family, and friends	Private owners			Acres owned		
	Number	Percent	Sampling error, percent	Number	Percent	Sampling error, percent
Hiking	29,300	33	35	981,000	24	11
Picnicking	14,100	16	36	472,900	11	20
Camping	5,900	7	29	404,200	10	16
Hunting	8,400	10	23	661,900	16	18
Fishing	13,200	15	68	472,600	11	19
Snowmobiling	12,600	14	39	508,300	12	22
Winter sports	16,600	19	32	622,400	15	16
Bird watching	21,900	25	42	758,900	18	14
Other	2,600	3	46	133,200	3	27
Any recreation[a]	42,300	48	27	1,421,200	34	9.5
No answer	45,800	52	23	2,722,800	66	5.0
Total	88,100	100	17.1	4,144,000	100	0.9

[a] Columns do not add to total because some owners permit more than one type of use.

Table 47.--Estimated number of private ownership units and acres of timberland owned, by type of public use permitted, New Hampshire, 1983

Type of public use	Private owners			Acres owned		
	Number	Percent	Sampling error, percent	Number	Percent	Sampling error, percent
Hiking	15,700	18	57	1,926,000	46	9
Picnicking	3,300	4	22	1,190,000	29	16
Camping	1,300	1	20	754,400	18	18
Hunting	14,500	16	23	2,243,700	54	8
Fishing	15,600	18	57	1,715,000	41	10
Snowmobiling	16,900	19	33	1,817,000	44	10
Winter sports	7,800	9	39	1,410,000	34	13
Bird watching	14,000	16	64	1,538,800	37	12
Other	1,300	1	44	386,400	9	32
All types[a]	33,000	37	32	2,610,100	63	4.5
No answer	55,100	63	20	1,533,900	37	7.5
Total	88,100	100	17.1	4,144,000	100	0.9

[a] Columns do not add to total because some owners permit more than one type of use.

Table 48.--Estimated number of private ownership units and acres of timberland owned, by availability for public recreational use and region, New Hampshire, 1983

Recreational use	Northern unit		Southern unit		Total	
	Number	Percent	Number	Percent	Number	Percent
			OWNERS			
Public use:						
Hiking	2,800	14	12,900	19	15,700	18
Hunting	5,200	25	9,300	14	14,500	16
Fishing	3,400	16	12,200	18	15,600	18
Snowmobiling	4,200	20	12,700	19	16,900	19
Bird watching	2,100	10	11,900	18	14,000	16
All types[a]	8,000	39	25,000	37	33,000	37
No answer	12,700	61	42,400	63	55,100	63
Total	20,700	100	67,400	100	88,100	100
			ACRES OWNED			
Public use:						
Hiking	1,149,200	58	776,800	36	1,926,000	46
Hunting	1,316,200	67	927,500	43	2,243,700	54
Fishing	1,071,300	54	643,700	30	1,715,000	41
Snowmobiling	1,149,200	58	667,800	31	1,817,000	44
Bird Watching	912,900	46	625,900	29	1,538,800	37
All types[a]	1,460,800	74	1,149,300	53	2,610,100	63
No answer	513,900	26	1,020,000	47	1,533,900	37
Total	1,974,700	100	2,169,300	100	4,144,000	100

[a] Columns do not add to total because some owners permit more than one type of use.

Table 49.--Estimated number of private ownership units and acres of timberland owned for recreational use by the owner, the owner's family or immediate circle of friends and geographic region, New Hampshire, 1983

Recreational use	Northern unit		Southern unit		Total	
	Number	Percent	Number	Percent	Number	Percent
			OWNERS			
Owner recreation:						
Hiking	5,500	27	23,800	35	29,300	33
Hunting	3,100	15	5,300	8	8,400	10
Fishing	2,400	12	10,800	16	13,200	15
Snowmobiling	2,400	12	10,200	15	12,600	14
Winter sports	3,500	17	13,100	19	16,600	19
Bird Watching	3,730	18	18,200	27	21,900	25
All types	6,800	33	35,500	53	42,300	48
No answer	13,900	67	31,900	47	45,800	52
Total	20,700	100	67,400	100	88,100	100
			ACRES OWNED			
Owner recreation:						
Hiking	422,200	21	558,800	26	981,000	24
Hunting	378,100	19	283,800	13	661,900	16
Fishing	277,500	14	195,100	9	472,600	11
Snowmobiling	233,300	12	275,000	13	508,300	12
Winter sports	277,500	14	345,900	16	622,400	15
Bird Watching	333,100	17	425,800	20	758,900	18
All types	622,900	32	798,300	37	1,421,200	34
No answer	1,351,800	68	1,371,000	63	2,722,800	66
Total	1,974,700	100	2,169,300	100	4,144,000	100

Table 50.--Estimated number of private ownership units and acres of timberland owned, by availability for recreational use and size class, New Hampshire, 1983

Availability for recreation	1 - 49 acres		50 - 499 acres		500+ acres		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
				OWNERS				
Public permitted	23,700	34	8,600	52	700	87	33,000	37
No answer	47,000	66	8,000	48	100	13	55,100	63
Total	70,700	100	16,600	100	800	100	88,100	100
				ACRES				
Public permitted	200,000	27	1,137,000	56	1,273,100	91	2,610,100	63
No answer	528,300	73	883,700	44	121,900	9	1,533,900	37
Total	728,300	100	2,020,700	100	1,395,000	100	4,144,000	100

Table 51.--Estimated number of private ownership units and acres of timberland owned, by availability for hunting, New Hampshire, 1983

Hunting availability	Owners			Acres		
	Number	Percent	Sampling error, percent	Number	Percent	Sampling error, percent
Owner permits hunting and does not hunt	11,800	13	27	1,895,000	46	8
Owner hunts and permits hunting	2,700	3	34	348,700	8	30
Owner hunts and did not answer on availability	5,700	6	30	313,200	8	18
Subtotal hunting	20,200	23	19	2,556,900	62	19
No answer	67,900	77	22	1,587,100	38	7
Total	88,100	100	17.1	4,144,000	100	0.9

Table 52.--Estimated number of private ownership units and acres of timberland owned, by reason for posting and use permitted, New Hampshire, 1983

Reason for posting	Public permitted		No answer		Total		
	Number	Percent	Number	Percent	Number	Percent	Sampling error, percent
			OWNERS				
Past abuse of property	100	W	3,500	6	3,600	4	32
Safety	9,100	29	1,400	3	10,500	12	
Liability	100	W	-	-	W	W	90
Control hunting	100	W	100	W	200	W	45
Prohibit hunting	300	1	1,100	2	1,300	2	53
Control access	100	W	1,100	2	1,200	1	84
Prohibit access	-	-	400	1	400	W	81
Other	100	W	-	-	100	W	88
Reason not specified	W	W	-	-	W	W	71
Total posted	9,900	30	7,600	14	17,300	19	52
Land not posted	23,200	70	45,300	82	68,500	78	18
No answer	-	-	2,200	4	2,300	3	56
Total	33,100	100	55,100	100	88,100	100	17.1
			ACRES OWNED				
Past abuse of property	40,000	2	215,500	14	255,500	6	20
Safety	55,800	2	60,000	4	155,800	4	29
Liability	17,700	1	-	-	17,700	-	71
Control hunting	103,700	4	28,900	2	132,700	3	52
Prohibit hunting	31,100	1	66,600	4	97,700	2	32
Control access	17,700	1	31,100	2	48,800	1	45
Prohibit access	-	-	28,900	2	28,900	1	58
Other	267,400	10	-	-	267,400	6	65
Reason not specified	20,000	1	-	-	20,000	-	72
Total Posted	553,400	21	431,000	28	984,500	24	17
Land not posted	2,056,600	79	1,027,400	67	3,084,000	74	6
No answer	-	-	75,500	5	75,500	2	36
Total	2,610,000	100	1,533,900	100	4,144,000	100	.9

W-Fewer than 50 owners or less than 0.5 percent.

Table 53.--Estimated number of private ownership units and acres of timberland owned, by whether land is posted and geographic region, New Hampshire, 1983

Posting status	Northern Unit		Southern Unit		Total	
	Number	Percent	Number	Percent	Number	Percent
			OWNERS			
Land posted	2,200	11	15,100	23	17,300	20
Land not posted	18,400	89	50,100	74	68,500	78
No answer	100	W	2,200	3	2,300	3
Total	20,700	100	67,400	100	88,100	100
			ACRES OWNED			
Land posted	580,100	29	404,400	19	984,500	24
Land not posted	1,372,300	70	1,711,700	79	3,084,000	74
No answer	22,300	1	53,200	2	75,500	2
Total	1,974,700	100	2,169,300	100	4,144,000	100

W-Fewer than 50 owners or less than 0.5 percent.

Table 54.--Estimated number of private ownership units and acres of timberland owned, by size class and whether land is posted, New Hampshire, 1983

Posting Status	1 - 49 acres		50 - 499 acres		500+ acres		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
				OWNERS				
Land posted	14,500	20	2,600	16	100	12	17,300	19
Land not posted	54,200	77	13,700	82	700	88	68,500	78
No answer	2,000	3	300	2	-	-	2,300	3
Total	70,700	100	16,600	100	800	100	88,100	100
				ACRES OWNED				
Land posted	113,200	16	397,500	20	473,800	34	984,500	24
Land not posted	588,500	81	1,574,300	78	921,200	66	3,084,000	74
No answer	26,600	4	48,900	2	-	-	75,500	2
Total	728,300	100	2,020,700	100	1,395,000	100	4,144,000	100

Table 55.-Estimated number of acres of private timberland owned, by expected time of future harvest, size class, and availability for harvesting, New Hampshire, 1983

Time of future harvest	Forest Industry		Nonindustrial private landowners						Total	
			1 - 49 acres		50 - 499 acres		500+ acres			
	Acres	Percent	Acres	Percent	Acres	Percent	Acres	Percent	Acres	Percent
1 - 10 years:										
Available	562,200	85	318,100	44	1,188,000	60	595,900	78	2,664,200	65
Other	57,800	9	70,400	10	222,100	11	34,500	4	384,800	9
Total	620,000	94	388,500	53	1,410,100	71	630,400	82	3,049,000	74
Sometime:										
Available	8,000	1	124,300	17	316,600	16	52,000	7	500,900	12
Other	900	W	84,400	12	80,800	4	8,000	1	174,100	4
Total	8,900	1	208,700	29	397,400	20	60,000	8	675,000	16
Never	-	-	108,900	15	60,000	3	11,100	1	180,000	4
No answer	28,900	5	22,200	3	124,300	6	64,500	9	240,000	6
Total	657,800	100	728,300	100	1,991,800	100	766,000	100	4,144,000	100

W-Fewer than 50 owners or less than 0.5 percent

Table 56.--Estimated number of private ownership units and acres of timberland owned, by expected time of future harvest for industrial use and for own use, New Hampshire, 1983

Expected time of future harvest	Private ownership units			Acres owned		
	Number	Percent	Sampling error, percent	Number	Percent	Sampling error, percent
1-10 years:						
Industrial and own	18,600	21	53	1,021,400	25	12
Industrial and own indefinite	100	W	74	37,400	1	62
Industrial and own never	W	W	70	22,200	1	72
Industrial and own no answer	2,900	3	28	871,300	21	19
Own and industrial indefinite	3,200	4	29	286,400	7	18
Own and industrial never	3,500	4	83	62,100	1	37
Own and industrial no answer	19,200	22	17	748,200	18	11
Total	47,500	54	23	3,049,000	74	4
Indefinite:						
Industrial and own	1,400	2	35	148,700	4	25
Industrial and own never	300	W	75	17,700	W	71
Industrial and own no answer	4,100	5	24	302,100	7	18
Own and industrial never	9,600	11	93	48,900	1	45
Own and industrial no answer	7,500	8	36	157,600	4	24
Total	22,900	26	41	675,000	16	12
Never						
Industrial and own	10,200	11	50	148,900	4	26
Industrial and own no answer	-	-	-	-	-	-
Own and industrial no answer	5,200	6	68	31,100	1	59
Total	15,400	17	40	180,000	4	24
No answer	2,300	3	41	240,000	6	21
State Total	88,100	100	17.1	4,144,000	100	.9

W-Fewer than 50 owners or less than 0.5 percent.

Table 57.--Estimated number of private ownership units and acres of timberland owned, by opinion question statement number, and response to statement, New Hampshire, 1983

Statement number	Very strongly disagree	Strongly disagree	disagree	Slightly disagree	No opinion	Slightly agree	Agree	Strongly agree	Very strongly agree	No answer	Total
					OWNERS						
1	400	-	200	-	1,500	5,000	15,500	8,100	54,300	3,100	88,100
2	9,700	9,800	27,100	6,300	22,600	1,200	5,600	1,500	1,000	3,300	88,100
3	9,900	4,700	25,100	2,000	25,100	1,500	12,500	2,100	2,100	3,100	88,100
4	5,100	500	5,400	3,200	15,400	16,900	28,500	7,400	2,600	3,100	88,100
5	500	900	3,000	200	25,600	9,600	27,800	10,900	5,800	3,800	88,100
6	400	300	900	500	4,900	6,800	44,600	9,100	17,700	2,900	88,100
7	600	100	3,300	1,500	27,100	4,800	26,500	8,100	13,400	2,700	88,100
8	-	200	11,300	300	23,200	13,800	13,200	14,400	7,900	3,800	88,100
9	13,300	13,100	32,300	800	23,100	900	1,300	-	300	3,000	88,100
10	12,300	5,100	12,800	700	48,500	1,900	2,400	900	100	3,400	88,100
11	3,200	1,300	14,500	4,300	38,500	6,800	7,100	1,800	6,200	4,400	88,100
12	11,000	5,600	35,500	3,900	19,600	2,500	1,100	2,500	3,000	3,400	88,100
13	13,100	1,500	21,900	2,600	15,100	6,600	4,700	5,700	4,600	12,300	88,100
14	3,200	700	11,700	1,700	16,100	14,000	29,900	1,500	6,100	3,200	88,100
15	5,600	2,300	12,800	2,500	30,300	20,100	10,300	200	900	3,100	88,100
					ACRES OWNED						
1	71,100	-	17,700	-	80,000	102,100	972,700	537,000	2,115,900	247,500	4,144,000
2	641,600	395,800	1,221,700	177,700	570,900	232,400	458,600	68,900	106,600	269,800	4,144,000
3	1,123,500	258,000	760,300	128,900	542,400	132,800	628,500	128,900	166,600	274,100	4,144,000
4	338,900	86,600	313,200	298,400	906,500	246,600	1,035,800	271,700	372,000	274,300	4,144,000
5	75,500	17,700	157,700	37,700	522,000	373,000	1,416,400	412,500	806,200	325,300	4,144,000
6	40,000	28,900	86,600	57,700	237,700	565,200	1,611,200	474,600	738,900	303,200	4,144,000
7	121,700	94,900	287,200	104,300	548,900	235,300	1,227,200	373,400	910,200	240,900	4,144,000
8	-	26,600	267,300	88,200	1,004,200	363,800	894,900	428,600	805,200	265,200	4,144,000
9	976,700	481,600	1,383,100	171,100	622,500	80,000	66,900	-	134,600	227,500	4,144,000
10	1,228,100	420,100	984,400	66,600	959,700	48,900	106,600	55,500	17,700	256,400	4,144,000
13	364,000	374,800	1,086,600	324,800	891,600	319,800	306,200	53,200	115,500	307,500	4,144,000
12	918,300	389,100	1,367,700	157,600	739,600	148,900	84,300	46,600	35,500	256,400	4,144,000
13	453,000	124,300	715,600	117,700	868,100	251,000	697,400	153,000	472,000	291,900	4,144,000
14	161,700	89,200	453,200	255,400	925,100	636,300	728,300	257,000	379,100	258,700	4,144,000
15	487,800	122,200	688,100	200,300	1,209,300	388,700	538,600	44,300	88,900	375,800	4,144,000

Table 58.--Estimated number of private ownership units and acres of timberland owned, by conservation-oriented and regional publications they receive, New Hampshire, 1983

Publication	Owners	Percent	Acres owned	Percent
National Wildlife	4,000	5	544,100	13
Ranger Rick	9,100	10	348,700	8
Sports Afield	7,600	9	301,900	7
Audubon	5,300	6	710,700	17
Agway Corporator	1,400	2	212,800	5
American Forests	1,600	2	784,900	19
Yankee	34,400	39	1,464,000	35
Field Notes	5,100	6	339,100	8
Field and Stream	8,100	9	310,800	8
New Hampshire Times	10,100	11	715,200	17
Tree Farm News	2,300	3	835,200	20
New Hampshire Profiles	6,500	7	651,300	16
Country Journal	19,000	22	818,900	20
Northern Logger	2,200	2	867,300	21
Farm Journal	2,900	3	322,100	8
Forest Notes	4,700	5	1,134,800	27
New Hampshire Natural Resource	500	1	222,700	5
Other	8,100	9	654,100	16
Any magazine	55,100	63	3,141,000	76
No magazines	26,900	31	668,700	16
No answer	6,100	7	334,300	8

Library Card

Birch, Thomas W. 1989. Forest-land owners of New Hampshire, 1983. Resour. Bull. NE-108 Broomall, PA: U.S. Department of Agriculture, Forest Service, Northeastern Forest Experiment Station; 96 p.

A Statistical Analytical report on a mail canvass of private timberland owners in New Hampshire. The study was conducted in conjunction with the forest survey of New Hampshire by the USDA Forest Service. It discusses forest-land owner characteristics, attitudes, and intentions of owners regarding reasons for owning, recreational use, timber management, and timber harvesting.

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- Princeton, West Virginia.
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